

Textile Organon

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Monthly Review

Highlight

September shipments of non-cellulosic fibers (except saran and spandex) declined 5% from August shipments, to 640.8 million pounds.

For year to date, 1981 shipments, at 6,118.6 million pounds, are 5% above deliveries for the corresponding 1980 period.

World cotton production for the 1981-1982 season is estimated at a record 71.0 million bales, 8% above the 65.8 million bales produced during last season. The U.S. cotton production is estimated at 15.6 million bales.

SEPTEMBER SHIPMENTS DECLINE 5%

Shipments of non-cellulosic fibers (except saran and spandex) totaled 640.8 million pounds during September, a decline of 5% from August shipments of 673.3 million pounds. September deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were 307.6 million pounds, a decrease of 3% from August shipments. For non-cellulosic staple+tow, September shipments fell 6½% from the August level to 333.2 million pounds.

However, for the first nine months of 1981, non-cellulosic fiber (except saran and spandex) shipments totaled 6,118.6 million pounds, an increase of 5% over the 5,820.9 million pounds delivered during January-September 1980. Year-to-date shipments of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 2,917.9 million pounds, 4½% above the 2,790.9 million pounds shipped during the corresponding 1980 period. January-September deliveries of non-cellulosic staple+tow totaled 3,200.7 million pounds, a 5½% increase over the corresponding period a year ago.

September shipments of nylon carpet yarn and nylon staple (predominately carpet) were the lowest since November 1976.

SEPTEMBER AND AUGUST SHIPMENTS COMPARED

Following is a comparison of total September shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with August (million pounds), and the percentage change, respectively: nylon industrial yarn 35.0 & 35.7 & -2%; low denier industrial 3.5 & 2.9 & +21%; carpet 48.1 & 52.9 & -9%; textile 35.8 & 34.8 & +3%; polyester industrial yarn 26.2 & 27.3 & -4%; low denier industrial 2.3 & 1.9 & +21%; textile 103.9 & 107.3 & -3%; olefin 52.8 & 53.7 & -1½%; and the total of these fibers 307.6 & 316.5 & -3%.

For non-cellulosic staple+tow, the corresponding data are: nylon 44.9 & 52.8 & -15%; acrylic+modacrylic 54.3 & 59.8 & -9%; polyester 223.4 & 232.9 & -4%; olefin+vinylon 10.6 & 11.3 & -6%; and the total 333.2 & 356.8 & 6½%.

CELLULOSIC SHIPMENTS UP 5%

September shipments of acetate yarn+monofilaments and rayon staple+tow totaled 59.5 million pounds, an increase of 5% from the 56.7 million pounds delivered during August. However, for the first nine months of 1981, shipments totaled 556.8 million pounds, 3½% below the 575.8 million pounds delivered during the corresponding 1980 period.

Acetate yarn+monofilament deliveries during September totaled 20.8 million pounds, 4½% above August shipments of 19.9 million pounds. But, January-September shipments of 208.0 million pounds were 11% below those of the same 1980 period.

September deliveries of rayon staple+tow increased 5% from August levels to 38.7 million pounds. For the first nine months of this year, rayon staple+tow shipments totaled 348.8 million pounds, a 2% increase from the January-September 1980 period.

STOCKS UP 11% FROM YEAR-AGO LEVELS

Non-cellulosic fiber stocks (except saran and spandex)

dex) stood at 664.5 million pounds as of September 30th, an 11% increase from their levels of a year ago. Increases in nylon carpet yarn and nylon staple-tow (predominately carpet) stocks account for most of the increase. As compared with end of September 1980 levels, current nylon carpet yarn stocks, at 72.4 million pounds, are up 84% and nylon staple-tow stocks, at 72.4 million pounds, are up 85%.

However, for the cellulosic fibers, end of September stocks, at 39.9 million pounds, are down 24% from their levels of a year ago. September 30th stocks of acetate yarn+monofilaments stood at 12.6 million pounds, 29% less than a year ago and rayon staple-tow stocks, at 27.3 million pounds, were 22% less than at the end of the corresponding 1980 month.

CELANESE TO WITHDRAW FROM PT YARN

Celanese Corporation this month announced plans to withdraw from the production and sale of textured polyester yarn by December 31, 1982.

This product is manufactured by Fiber Industries Inc. at its Shelby, NC and Greenville, SC, plants. Fiber Industries is a subsidiary of Celanese Corporation and its fibers and yarns are marketed by Celanese Fibers Marketing Company.

Both plants will continue to manufacture flat and partially oriented polyester yarns and the Shelby plant also will produce polyester industrial yarns and polymer.

JUNE ORGANON CORRECTIONS

France. On page 97, the Courtaulds nylon 6 plant at Pont du Leu should be delisted.

Switzerland. On page 105, the Viscosuisse rayon plant at Emmenbrücke should be delisted. Accordingly, the producing capacity for this plant should be deleted on page 87.

THE COTTON SITUATION

In the following article and tables, we present our annual review of the U.S. and world cotton situations. In addition to the "commercial" cotton entering regular trade channels, estimates of the substantial amounts of cotton grown for, and used in, home consumption in such countries as the People's Republic of China, India, Pakistan and the U.S.S.R. are included in the world data.

The cotton season covers the 12 months August 1st to July 31st inclusive. The year shown is the year the cotton season begins. Thus, the 1980 season covers the period August 1, 1980 to July 31, 1981.

There are three different ways in which the term "production" is used: (1) ginnings within the season, as used in the page 166 table regarding the U.S. situation; (2) to

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Textile Organon

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tal cotton grown in a season, irrespective of when it was ginned, as used in the Department of Agriculture crop forecasts and in the page 164 table, U.S. Cotton Acreage and Yield, and (3) ginnings within the season plus the city crop, production for household consumption, unpressed cotton, etc., as used by the International Cotton Advisory Committee and shown in the tables on pages 164 and 165.

The term "city crop" in the United States means rebaled samples and pickings from cotton damaged by fire and weather.

WORLD SUMMARY

World cotton consumption increased to a record high of 66.8 million bales during the 1980-1981 season, 0.9 million bales more than the 65.9 million bales consumed during the 1979-1980 season, while production fell 12% from the 66.0 million bales produced during the 1979-1980 season. Thus consumption exceeded production by 1.0 million bales and the end of season carryover decreased to 21.2 million bales as of August 1, 1981.

World production of raw cotton during the 1979-1980 season amounted to 65.8 million bales, 0.2 million bales less than the record 66.0 million bales produced during the 1978-1979 season. Of the recent season's total, production in both the U.S.S.R. and the People's Republic of China exceeded that of the United States. Production during the 1980-1981 season in Eastern Europe and the People's Republic of China increased by 15% over the previous season, whereas production in the rest of the world decreased by 8 1/2% during the same period.

The total world available supply of raw cotton during the 1980-1981 season amounted to 87.8 million bales, a 1/2% decrease over the previous season. This supply consisted of the aforementioned production plus a 22.0 million bale carryover.

WORLD PRODUCTION

As shown in the page 164 table, world cotton production for the 1981-1982 season is estimated at a record 71.0 million bales, or 8% above the 65.8 million bales produced during the 1980-1981 season. The U.S. raw cotton production is estimated to amount to 15.6 million bales during the current season, 39% more than the 1980-1981 output. Aggregate output of all other countries at 55.4 million bales increased 0.8 million bales, or by 1 1/2%. Thus, American cotton output is estimated at 22% of the 1981-1982 world total, compared with 17% the previous year.

Cotton production of selected countries during recent years and periods, as well as certain regional production totals, is presented in the page 165 table. Eight countries other than the United States had 1980-1981

cotton crops in excess of one million bales each, i.e., Brazil, the People's Republic of China, Egypt, India, Mexico, Pakistan, Turkey and the U.S.S.R.

DOMESTIC COTTON SUPPLY AND OUTLOOK

The cotton supply for the 1981 (1981-1982) crop year is estimated at 17,800,000 running bales. This prospective supply consists of an August first carryover of 2,580,000 running bales, a production within the season of 15,170,000 running bales, an estimated city crop of 10,000 running bales and imports of 28,000 running bales. According to the USDA, disappearance during the 1981 crop year is estimated at 12,650,000 running bales. This breaks down as: domestic consumption 5,900,000 running bales, exports 6,700,000 running bales and destroyed 50,000 running bales. Thus, a domestic carryover on July 31st, 1982, of 5,150,000 running bales is projected, an increase of 250,000 running bales, or almost double that of last season.

CONSUMPTION & INTERNATIONAL TRADE

World consumption of raw cotton during the 1980-1981 season was a record 66.8 million bales, or 1 1/2% above the 65.9 million bales consumed during the previous season. Consumption in the non Communist countries is placed at 58.9 million bales, down 0.9 million bales or 2 1/2% from last year. Increased usage in Eastern Europe, the People's Republic of China and the U.S.S.R. is placed at about 1.7 million bales, or up 6 1/2%.

The 1980 world export total of 20.0 million bales was 15% less than that of 1979. U.S. exports of 6.6 million bales decreased by 35%, but exports of other cotton-growing nations, at 14.0 million bales, showed an increase of 1 1/2%. The main customers of U.S. exports were: the People's Republic of China, Korea, Japan, Taiwan, Canada, Indonesia, Thailand and Hong Kong.

KINDS OF GOVERNMENT COTTON PROGRAMS

Several methods of supporting the price and/or consumption of American cotton have been used since the programs began in 1933. These plans may be broadly grouped as acreage allotments, acreage diversion or soil conservation payments, direct payments, nonrecourse loans by the Commodity Credit Corporation and export programs.

Descriptions of the Agricultural Adjustment Act of 1933, the Soil Conservation and Domestic Allotment Act of 1936, the Agriculture Adjustment Act of 1938 and the postwar agriculture acts are covered in an article on page 170 of this issue. These were forerunners of the Agriculture Act of 1970, under which authority programs were

WORLD PRODUCTION, CONSUMPTION, EXPORT & CARRYOVER OF RAW COTTON **MILLION BALES^a & Percent**

SEASON BEGINNING AUGUST 1	PRODUCTION ^b						CONSUMPTION ^c						EXPORT ^d						CARRYOVER ^e					
	TOTAL		U.S.A		FOREIGN		TOTAL		U.S.A		FOREIGN		TOTAL		U.S.A		FOREIGN		TOTAL		U.S.A		FOREIGN	
	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%
1950-1951	58.4	70	1.01	0	2.4	0	8.2	0	0.5	0	27.0	0	12.4	0	0.0	0	8.4	0	18.1	0	7.0	0	10.5	0
1951-1952	45.7	00	1.2	0	50.8	0	44.2	00	8.7	0	55.8	0	14.7	00	5.1	0	0.6	0	22.4	00	12.0	54	10.4	0
1952-1953	40.2	00	1.41	0	54.8	0	47.2	00	8.7	0	58.5	0	16.0	00	6.0	0	11.7	0	25.5	00	12.5	52	11.2	0
1953-1954	52.7	00	1.01	0	62.3	0	54.0	00	8.8	0	65.2	0	17.4	00	5.0	0	15.8	0	27.0	00	11.5	42	15.7	0
1954-1955	55.2	00	1.11	0	51.8	0	50.2	00	7.4	0	51.7	0	18.0	00	6.5	0	14.4	0	25.0	00	6.5	0	18.7	0
1955-1956	60.0	00	1.0	0	68.5	0	62.5	00	0.7	0	55.8	0	19.5	00	5.8	0	15.7	0	25.0	00	6.5	0	20.7	0
1956-1957	54.4	00	10.5	0	64.1	0	50.2	00	8.1	0	48.1	0	17.8	00	6.0	0	13.0	0	21.8	00	5.8	0	16.0	0
1957-1958	50.8	00	10.4	0	49.5	0	50.4	00	8.0	0	50.5	0	18.0	00	4.4	0	15.5	0	20.0	00	4.5	0	16.0	0
1958-1959	65.2	00	18.0	0	47.5	0	60.4	00	7.8	0	52.6	0	21.2	00	5.8	0	15.0	0	21.0	00	5.5	0	18.0	0
1959-1960	65.7	00	18.5	0	50.4	0	62.2	00	7.5	0	54.7	0	19.4	00	6.1	0	15.5	0	24.5	00	6.1	0	20.4	0
1960-1961	66.7	00	11.5	0	55.2	0	58.5	00	5.0	0	52.0	0	17.2	00	5.0	0	15.5	0	25.8	00	5.0	0	21.0	0
1961-1962	54.0	00	8.5	0	45.0	0	61.5	00	7.5	0	54.0	0	18.7	00	5.5	0	15.4	0	31.7	00	5.0	0	26.1	0
1962-1963	57.0	00	10.7	0	46.3	0	60.8	00	0.7	0	54.3	0	17.5	00	6.8	0	12.7	0	24.7	00	4.7	0	21.0	0
1963-1964	60.8	00	14.5	0	46.8	0	60.0	00	0.3	0	54.4	0	18.7	00	5.5	0	15.2	0	21.6	00	5.0	0	18.4	0
1964-1965	61.8	00	10.0	0	48.0	0	51.5	00	0.6	0	50.0	0	19.0	00	0.2	0	15.4	0	25.5	00	5.5	0	19.8	0
1965-1966	60.0	00	14.8	0	51.2	0	45.0	00	0.0	0	50.4	0	25.1	00	0.4	0	18.8	0	22.1	00	5.0	0	18.2	0
1966-1967	65.8	00	11.2	0	54.0	0	60.8	00	5.0	0	60.0	0	20.0	00	0.0	0	14.0	0	22.0	00	5.0	0	19.0	0
1967-1968	71.0	00	15.0	0	55.4	0	60.8	00	0.0	0	60.0	0	20.0	00	0.0	0	14.0	0	21.2	00	2.0	0	18.0	0

SOURCE: International Cotton Advisory Committee.

For earlier years data, see the October 1960 and 1960 COTTON issues, pages 167 & 170.

a. Bales of 475 pounds, except running bales for the United States through 1971.

b. PRODUCTION means actual ginnings or pressings during the August-July season. In some countries, unpressed cotton and estimates of production for household consumption and for delivery to mills are included. U.S. production also includes the city crop, etc. Note that U.S. production shown in the table on page 165 includes only the ginnings within the crop year shown.

c. CONSUMPTION includes raw cotton consumed in spinning mills and other facilities plus estimates of household consumption.

d. EXPORT means the export of domestically produced cotton.

e. CARRYOVER includes mill stocks, port stocks and stocks in transit, etc. U.S.A. means the carryover of U.S. cotton in the world regardless of where located. FOREIGN means the carryover of foreign cotton in the world regardless of location.

f. Five year averages.

g. The 1980 & 1981 data are preliminary.

in effect covering the cotton crops of 1971 through 1973.

The Agricultural and Consumer Protection Act of 1973 continued the upland cotton program for four years, effective with the 1974-1975 marketing year.

The Food and Agriculture Act of 1977, as amended by the Emergency Agriculture Act of 1978, continues the upland cotton program for four years effective with the 1978-1979 marketing year.

The major provisions of this act for the 1981-1982 crop year (the final year of the program) include:

1) A loan rate at the legislative minimum of 52.46 cents a pound for SLM 1-1 16-inch cotton (micronaire 3.5 through 4.9) net weight, at average location, up from 48.00 cents a pound last season.

2) A target price of 70.87 cents a pound, up from 58.40 cents a pound last season.

3) Deficiency payments are limited to a combined total of \$50,000 per person under the upland cotton, wheat and feed grain programs, unchanged from 1980. The payment rate is based on the difference between the target price and the higher of the loan rate or calendar year average farm price.

4) A national program acreage (NPA) of 14,022,000 acres (subject to revision) was set.

5) Producers who plant no more than 1980 plantings, or what was considered planted, are eligible for full deficiency payment coverage. If plantings exceed last year's level, the deficiency payments will be subject to an

U.S. COTTON ACREAGE & YIELD

SEASON BEGIN- NING AUG. 1	THOUSAND ACRES		YIELD ^a	PRODUC- TION
	ALLOT- MENT	HAR- VESTED		
			LBS	THOU'S. BALES ^b
1964	10,000	14,057	517	15,145
1965	10,000	15,615	527	14,948
1966	10,000	0,552	480	9,557
1967	10,000	7,067	477	7,445
1968	10,000	10,160	510	10,920
1969	10,000	11,055	454	9,990
1970	17,000	11,155	458	10,164
1971	11,500 ^c	11,471	458	10,477
1972	11,500 ^c	12,984	507	13,704
1973	10,000 ^c	11,070	520	12,974
1974	11,000 ^c	12,507	441	11,540
1975	11,000 ^c	8,706	453	8,962
1976	11,000 ^c	10,914	465	10,581
1977	11,000 ^c	14,282	520	14,989
1978		12,870	421	10,850
1979		12,844	547	14,629
1980		15,215	494	11,122
1981 ^d		15,700	540	15,470

a. Yield per harvested acre.

b. Production for the crop year in 480 pound net weight bales, regardless of when ginned. Does not include adjustment for city crops, etc., as in the table above.

c. National base acreage allotments for price support payments.

d. October 1980 USDA estimate.

WORLD RAW COTTON PRODUCTION^a THOUSAND BALES & Percent

SEASON BEGINNING AT GUST 1ST	WORLD TOTAL	NORTH & SOUTH AMERICA										PEOPLE'S REPUBLIC OF CHINA & EUROPE									
		BRAZIL		MEXICO		U.S.A.		OTHER N.A. ^b		OTHER S.A. ^c		TOTAL		CHINA		U.S.S.R. ^d		TOTAL			
		BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%		
1950-1954	58,405	288	0.5	1,900	3.3	1,540	2.6	14,000	24.0	170	0.3	1,170	2.0	28,403	47.9	4,480	7.7	3,545	6.1	10,425	17.8
1955-1959	65,718	260	0.4	1,400	2.1	2,050	3.1	12,945	19.6	422	0.6	1,523	2.3	28,252	42.7	7,000	10.7	3,025	4.6	14,000	21.3
1960-1964	69,171	260	0.4	2,220	3.2	2,101	3.0	14,881	21.4	351	0.5	1,645	2.4	21,800	31.5	5,880	8.5	7,555	10.9	15,415	22.3
1965-1969	52,716	260	0.5	2,670	5.1	2,214	4.2	10,905	20.7	1,640	2.9	1,570	3.0	18,110	34.3	8,240	15.6	3,270	6.2	17,517	33.2
1970-1974	61,175	260	0.4	2,750	4.5	1,744	2.8	11,851	19.4	1,270	2.1	1,871	3.1	19,400	31.7	11,680	19.1	1,400	2.3	21,860	35.6
1975-1979	60,590	260	0.4	2,527	4.2	1,554	2.6	11,870	19.6	1,600	2.6	2,422	4.0	19,228	31.7	10,070	16.6	12,505	20.6	21,455	35.2
1970	54,412	260	0.4	2,740	5.0	1,440	2.6	10,260	18.9	805	1.4	1,509	2.8	10,855	19.9	9,200	16.9	10,000	18.6	20,100	37.0
1971	59,822	260	0.4	3,155	5.3	1,715	2.9	10,270	17.2	910	1.5	1,380	2.3	10,240	17.1	11,000	18.4	11,000	18.4	21,200	34.9
1972	65,200	260	0.4	3,000	4.6	1,780	2.8	15,800	24.0	1,208	1.9	1,804	2.8	21,807	33.5	9,300	14.3	13,205	20.2	21,005	33.2
1973	63,657	260	0.4	2,405	3.8	1,500	2.4	15,500	24.0	1,011	1.7	1,092	1.7	20,808	32.6	11,700	18.4	11,100	17.3	22,800	35.6
1974	60,710	260	0.4	2,440	4.0	2,250	3.7	11,525	19.0	1,650	2.7	2,457	4.0	19,982	32.9	11,500	18.9	12,445	20.4	23,885	38.9
1975	54,870	260	0.4	1,800	3.3	910	1.7	8,500	15.5	1,281	2.3	1,895	3.4	14,584	26.6	10,700	19.7	11,815	21.6	22,515	37.4
1976	57,560	260	0.4	2,510	4.4	1,045	1.8	10,650	18.5	1,512	2.7	2,502	4.3	18,400	32.1	10,000	17.4	12,125	21.3	22,125	37.4
1977	64,261	260	0.4	2,125	3.3	1,627	2.5	14,525	22.6	1,085	1.8	2,045	3.3	22,907	35.7	10,500	16.4	12,700	19.6	22,210	36.0
1978	59,704	260	0.4	2,550	4.3	1,570	2.6	10,885	18.2	1,008	1.7	2,080	3.5	18,750	31.4	10,000	16.7	12,055	20.2	22,055	36.0
1979	65,978	260	0.4	2,650	4.0	1,515	2.3	14,820	22.6	1,151	1.7	2,191	3.3	22,513	34.1	10,200	15.5	15,000	22.8	25,200	38.3
1980 ^e	65,707	260	0.4	2,870	4.4	1,625	2.5	11,200	17.0	1,180	1.8	2,055	3.1	18,850	28.7	12,500	19.0	14,275	21.7	26,775	40.6
1981 ^f	70,065	260	0.4	2,700	3.8	1,625	2.3	15,000	21.4	1,101	1.6	2,005	2.8	23,051	32.9	15,000	21.4	15,970	22.8	26,570	37.9

SEASON BEGINNING AT GUST 1ST	WEST EUROPE TOTAL ^g	ASIA & OCEANIA					AFRICA													
		INDIA		PAKISTAN		TURKEY		OTHER ^h		TOTAL		EGYPT		SUDAN		OTHER ⁱ		TOTAL		
		BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	BALES	%	
1950-1954	250	0.6	8,452	8.0	1,540	1.5	642	1.7	727	2.0	10,351	10.0	1,715	4.3	887	2.0	1,110	2.0	5,210	8.4
1955-1959	547	1.2	9,012	9.2	1,581	1.2	765	1.7	1,129	2.0	7,285	10.7	1,815	4.2	592	1.0	1,502	1.4	5,070	8.4
1960-1964	848	1.7	4,701	9.7	1,065	3.4	1,118	2.3	1,064	1.0	9,194	18.7	2,085	4.1	691	1.4	942	2.0	4,000	8.4
1965-1969	778	1.5	4,850	9.2	2,208	4.3	1,787	3.4	2,005	1.9	10,970	20.8	2,205	4.2	660	1.4	2,100	4.1	5,541	10.2
1970-1974	869	1.4	5,410	8.8	2,905	4.0	2,570	3.0	2,505	3.0	15,145	24.3	2,208	3.7	1,050	1.7	2,585	4.2	5,007	9.0
1975-1979	803	1.4	5,700	9.4	2,540	4.2	2,291	3.8	2,581	4.0	12,008	20.4	1,940	3.2	605	1.0	2,425	4.0	5,024	8.3
1970	783	1.4	4,400	8.1	2,502	4.0	1,845	3.4	2,041	3.7	10,788	19.8	2,340	4.3	1,180	2.1	2,412	4.4	5,888	10.8
1971	750	1.3	5,800	9.7	3,035	5.3	2,420	4.0	2,248	3.7	15,721	22.0	2,451	4.0	1,125	1.9	2,087	3.6	6,115	10.2
1972	910	1.4	5,570	8.5	3,247	5.1	2,505	4.0	2,479	4.0	15,501	21.4	2,409	4.0	920	1.5	2,658	4.2	5,917	10.2
1973	717	1.1	5,540	8.7	3,037	4.8	2,365	3.7	2,410	3.8	15,548	21.0	2,258	3.6	1,000	1.7	2,480	4.0	5,844	9.2
1974	869	1.3	5,950	10.2	2,925	4.5	2,700	4.1	2,000	3.1	14,275	21.1	2,078	3.4	1,015	1.6	2,722	4.2	5,745	9.0
1975	813	1.5	5,450	9.8	2,570	4.9	2,215	4.1	2,254	4.1	12,170	20.9	1,702	3.0	800	1.4	2,228	4.1	4,000	8.2
1976	743	1.3	4,950	9.0	2,000	3.8	2,100	3.8	2,401	4.1	11,547	20.0	1,828	3.2	745	1.3	2,532	4.4	5,095	8.9
1977	928	1.4	5,680	8.9	2,651	4.1	2,050	3.1	2,089	3.0	15,470	23.0	1,800	3.0	915	1.6	2,401	4.0	5,190	9.0
1978	855	1.4	6,220	10.4	2,185	4.0	2,200	3.7	2,454	4.1	15,017	21.8	2,022	3.4	600	1.1	2,452	4.0	5,094	8.8
1979	984	1.6	6,300	10.5	3,470	5.3	2,200	3.3	2,845	4.6	14,515	21.7	2,250	3.8	825	1.4	2,651	4.4	5,880	9.2
1980 ^e	814	1.4	6,160	9.4	3,500	5.0	2,240	3.9	2,277	3.9	15,067	21.2	2,440	3.7	855	1.5	2,510	4.3	5,411	8.2
1981 ^f	804	1.3	6,500	10.2	3,600	5.7	2,250	3.9	2,082	3.7	15,012	21.2	2,530	3.9	800	1.4	2,718	4.3	5,548	8.6

SOURCE: International Cotton Advisory Committee

^a See footnote (a) on the opposite page^b Other North America bales are principally from El Salvador, Guatemala & Nicaragua^c Other South America bales are principally from Argentina, Colombia, Paraguay & Peru^d U.S.S.R. figures include nominal bales for Albania & Bulgaria^e The 1980 and 1981 data are preliminary^f West Europe bales are principally from Greece & Spain^g Other Asia & Oceania bales are chiefly from Australia, Iran, Israel & Syria^h Other Africa bales are principally from Angola, Chad, Mozambique, Nigeria, South Africa, Tanzania, Uganda, Zaire & Zimbabwe

allocation factor that is equal to the ratio of final NPA to 1981 harvested acreage. Based on an estimated 1981-1982 harvested acreage of 13,794,000 bales, there will be no allocation factor, implying full deficiency payment coverage regardless of payment.

6) A disaster payment of one-third the target price. Combined disaster payments under all programs are limited to \$100,000 per person.

7) Upland cotton producers will not have to set aside or divert acreage to qualify for program benefits. However, if wheat, corn, sorghum or barley is grown on

the farm, producers must comply with set-aside requirements for these commodities to qualify for program benefits on any crop included in the normal crop acreage except sugar crops.

NEW FARM LEGISLATION

Legislation to replace the Food and Agriculture Act of 1977, which will expire with the 1981-1982 crop year, has been approved by the Senate. For cotton, the following provisions have been proposed:

1) Target price per pound of cotton may not be less

**SUPPLY AND DISTRIBUTION OF DOMESTIC & FOREIGN RAW COTTON
IN THE U.S. FOR THE SEASONS BEGINNING AUGUST 1ST**
THOUSAND RUNNING BALES^a

SUPPLY & DISTRIBUTION	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981 ^b
SUPPLY												
BEGINNING STOCK AVAILABLE	9,700	12,92	8,24	5,500	5,743	5,490	5,904	2,020	5,420	5,782	5,027	2,980
NET IMPORTS	8	72	91	48	54	98	88	5	5	5	28	25
U.S. PRODUCTION (ESTIMATED) ^c	10,222	10,137	8,246	12,758	11,215	8,199	10,865	14,077	10,477	14,500	10,071	15,170
CHY CROPS (est.) ^d	0	0	0	0	0	0	0	0	0	0	151	0
TOTAL SUPPLY	16,065	14,511	16,504	16,750	15,000	13,773	14,027	17,002	15,807	18,177	15,857	17,800
DISTRIBUTION												
NET EXPORTS	5,740	5,210	5,000	5,740	5,740	5,247	4,500	5,210	3,890	4,779	5,011	6,700
U.S. CONSUMPTION	8,008	8,050	7,471	7,100	8,120	10,000	11,478	11,250	10,098	11,261	5,000	9,000
ADJUSTMENT (loss) ^e	0	0	0	0	0	0	0	0	0	0	0	0
ENDING STOCK (EST.) (EST.)	4,252	4,254	5,021	5,745	5,485	3,504	2,020	5,420	4,782	5,027	2,980	5,150
PROPERTY OWNED	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000
UNRECOVERED CROPS (est.) ^f	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL DISTRIBUTION	16,065	14,511	16,504	16,750	15,000	13,773	14,027	17,002	15,807	18,177	15,857	17,800

SOURCES: U.S. Census Bureau, Current Industrial Report M22; **USDA COTTON AND WOOL SITUATION**, and the New York Cotton Exchange Service Bulletin.

For earlier years' data, see page 178 of the October 1981 **ORGANON** and page 158 of the October 1978 issue.

a. Foreign imports in equivalent 500 pound bales.

b. 1981 data estimated except for beginning stock.

c. Total ginnings within the crop year shown. Note that U.S. production given in the World Tables on pages 104 & 105 also includes U.S. crop year.

d. Vary crop consists of rebaled samples and pickings from cotton damaged by fire and weather (partially estimated).

e. The Census Bureau's difference between supply and distribution resulting from baling destroyed cotton in transit, etc.

f. Loan and pooled cotton under CCC and earlier programs.

g. Included in crop year above.

h. Preliminary data, subject to revision.

U.S. CALENDAR YEAR IMPORTS & EXPORTS OF RAW COTTON & COTTON PRODUCTS
THOUSAND RUNNING BALES

PRODUCTS	1966	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	6 MOS 1981
IMPORTS																
RAW COTTON	100	100	05	40	57	48	73	54	40	50	90	9	5	0	17	14
COTTON YARN	212	20	110	05	51	06	82	55	27	24	50	27	05	25	40	21
MANUFACTURED GOODS ^a	851	853	9608	052	014	000	1,190	1,121	1,020	1,020	1,122	1,568	1,608	1,520	1,650	055
TOTAL	1,163	1,093	1,082	1,063	1,002	1,064	1,347	1,207	1,093	1,094	1,572	1,404	1,764	1,560	1,706	990
EXPORTS																
RAW COTTON	5,507	5,575	5,870	2,007	2,082	4,128	5,080	5,387	5,171	5,800	5,451	4,148	5,875	10,040	7,975	5,500
COTTON YARN	14	12	0	78	52	34	57	52	87	25	25	21	42	50	04	20
MANUFACTURED GOODS ^a	580	581	585	400	585	458	508	1,045	781	712	850	740	1,093	940	1,057	400
TOTAL	5,992	4,566	4,262	2,881	3,597	4,600	5,694	6,164	5,989	4,577	4,292	5,218	6,616	7,648	9,076	3,801
IMPORT BALANCE^b																
COTTON YARN																
MANUFACTURED GOODS ^a	+008	+541	+505	+545	+580	+584	+607	+407	+220	+507	+015	+025	+1,020	+555	+588	+541

SOURCES: U.S. Census Bureau and Department of Agriculture.

Raw cotton data are actual bales. Cotton yarn and manufactured goods data are the USDA raw cotton equivalents of these imports and exports.

a. Includes thread, twine, cordage, woven & knit cloth, all types of apparel, household items and other items such as industrial belts & belting, bags, bracts and

narrow fabrics.

b. Imports of bales only and export balance only.

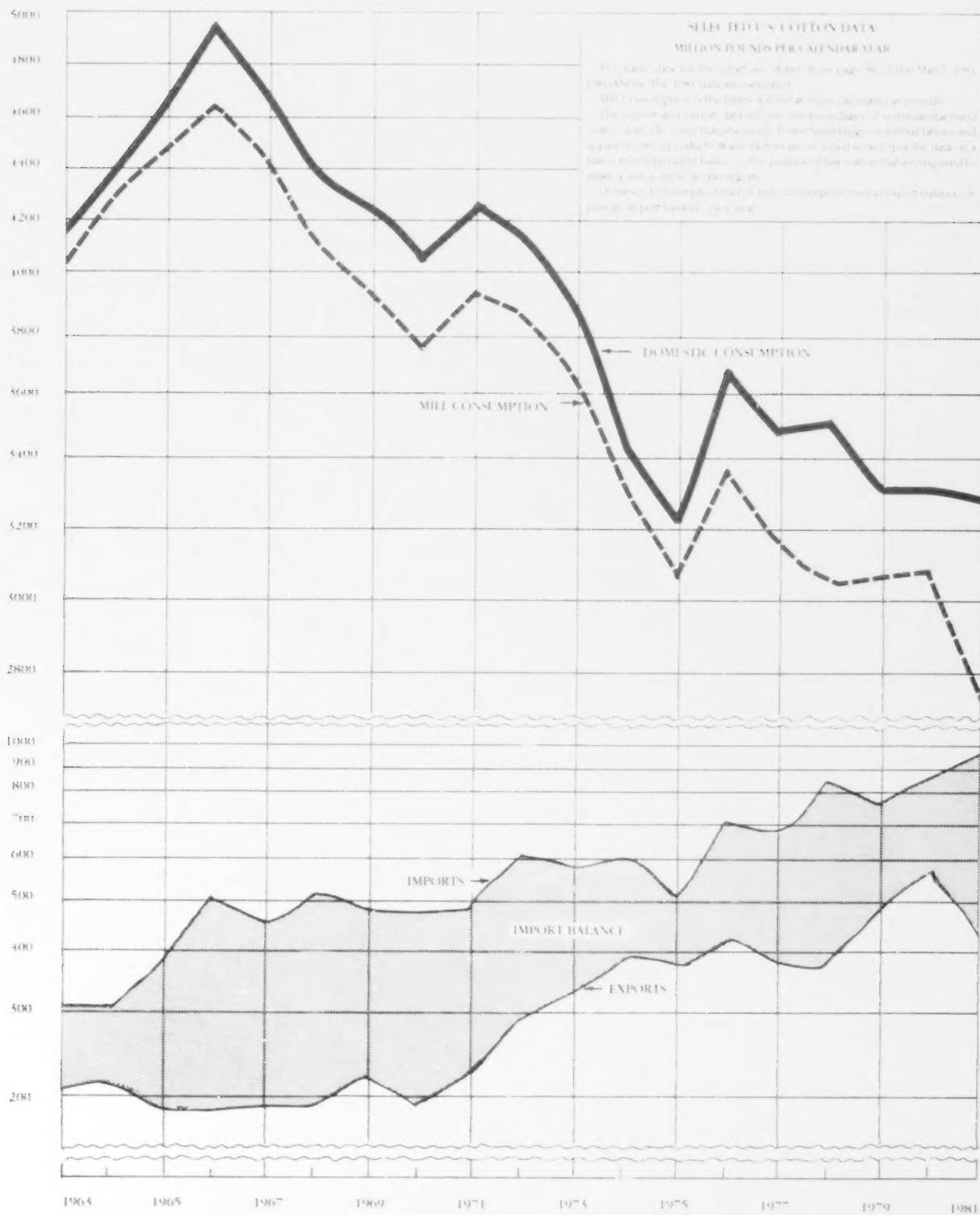
For additional details in pounds, see page 154 of the September 1981 **ORGANON** issue.

than 71¢ for 1982; 76¢ for 1983; 81¢ for 1984 and 86¢ for 1985. These target prices may be adjusted upward based on changes in the two year moving average of selected production costs. Deficiency payments will be based on

calendar year average price.

2) Nonrecourse loans will be available at the lower of 85% of the three year average of the previous five

(Continued on page 170)



**COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+)
ON TEXTILE FIBER & PRODUCT PROGRAMS OCTOBER 1933 TO DATE**

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								47 YEARS	22 YEARS	5 YEARS	5 YEARS	15 YEARS
	1974 ^a	1975 ^a	1976 ^a	1976 ^b	1977 ^b	1978 ^b	1979 ^b	1980 ^b	1934-1980 ^b	1934-1955	1956-1960	1961-1965	1966-1980 ^b
COTTON UPLAND & LONG STAPLE													
INVENTORY & TRANSPORTATION ^c	450	+2	-91	-91	+50	947	470	229	2,340,960	+242,174	1,079,751	549,967	949,415
SET ASIDE PAYMENTS													
DIRECT PAYMENTS ^d	718,555	150,096	119,945	120,219	95,702	85,487	216,607	103,069	6,658,978	0	0	51,215	6,607,763
ADJUDICATION DIVERSION ^e	0	0	0	0	0	0	0	0	803,654	0	0	0	803,654
SMALL FARMS PROGRAM	0	0	0	0	0	0	0	0	850,111	0	0	0	850,111
EQUALIZATION PROGRAM ^f	0	0	0	0	0	0	0	0	0	0	0	497,575	452,540
EXPORT PAYMENTS													
COTTON	0	0	0	0	0	0	0	0	846,593	192	245,226	694,982	47
COTTON PRODUCTS	0	0	0	0	0	0	0	0	0	0	61,514	60,770	0
COTTON RESEARCH & PROMOTION	5,000	2,004	1,010	2,940	0	815	0	0	28,846	0	0	0	28,846
TOTAL COTTON ABOVE	721,763	133,897	120,870	129,074	95,652	86,421	217,077	103,298	11,515,112	+242,071	1,384,491	1,630,515	8,732,177
COTTONSEED & PRODUCTS ^g	0	0	0	0	0	0	0	0	198,025	81,100	54,747	27,050	56,140
TOTAL COTTON PROGRAMS	721,763	133,897	120,870	129,074	95,652	86,421	217,077	103,298	11,713,135	+150,971	1,438,238	1,657,545	8,768,323
WOOL PRICE SUPPORT^h	101	14,647	41,577	41,826	6,823	28,829	36,085	30,989	1,252,213	93,428	288,314	202,682	667,789
GRAND TOTAL ABOVE	721,864	148,544	162,447	170,900	102,475	115,250	253,162	134,287	12,965,348	+57,543	1,726,552	1,860,227	9,436,112

SOURCE: CCC Report of Financial Condition and Operations, U.S. Department of Agriculture.

- a. Old fiscal year ending June 30th (12 calendar months in 1976).
b. New fiscal year ending September 30th (15 calendar months in 1976).
c. Inventory Operations means sales less the cost of sales and less storage, handling & transportation expense.
d. Direct Payments means cash or in-kind price support payments to farmers.

e. Diversion Payments means payments to farmers for acreage diversions under the 1966 Upland programs.

f. The Equalization Program, which began April 11, 1964, was mainly replaced by other programs as of August 1, 1966.

g. Data for 1953-1955 include cottonseed meal under the Emergency Feed Program.

h. Data through 1956 include price support programs only. For 1957 forward, incentive payments are also included in the year in which they became payable.

**COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+)
AMOUNTS TO BE REIMBURSED TO THE CCC UNDER P.L. 480 & EXPORT CREDIT SALES**

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								47 YEARS	22 YEARS	5 YEARS	5 YEARS	15 YEARS
	1974 ^a	1975 ^a	1976 ^a	1976 ^b	1977 ^b	1978 ^b	1979 ^b	1980 ^b	1934-1980 ^b	1934-1955	1956-1960	1961-1965	1966-1980 ^b
COTTON PROGRAMS^c - BEGAN 1933	721,763	133,897	120,870	129,074	95,652	86,421	217,077	103,298	11,515,112	+242,071	1,384,491	1,630,515	8,732,177
PUBLIC LAW 480													
FOREIGN CURRENCY ^d	11	0	0	0	0	0	0	0	2,239,665	10,195	848,900	962,853	4,777,190
DOLLAR CREDIT ^e	88,157	14,709	28,894	54,533	17,726	9,891	14,260	11,503	708,151	0	0	67,987	640,164
DISASTER OR OTHER RELIEF ^d	1	+1	0	0	0	0	0	0	19,389	999	14,561	3,540	69
TOTAL P.L. 480	38,169	14,768	28,894	54,533	17,726	9,891	14,260	11,503	2,967,205	11,192	863,261	974,380	1,118,372
EXPORT CREDIT SALES	63,362	97,435	244,879	324,863	98,546	229,823	248,765	52,027	1,634,562	0	0	68,000^f	1,566,562
TOTAL COTTON PROGRAM, P.L. 480 & EXPORT CREDIT SALES COST	823,294	246,100	394,643	508,470	211,924	326,135	480,102	166,828	16,116,879	+220,879	2,247,752	2,672,895	11,417,111

SOURCE: CCC Report, same as above.

a. Old fiscal year ending June 30th (12 calendar months in 1976).

b. New fiscal year ending September 30th (15 calendar months in 1976).

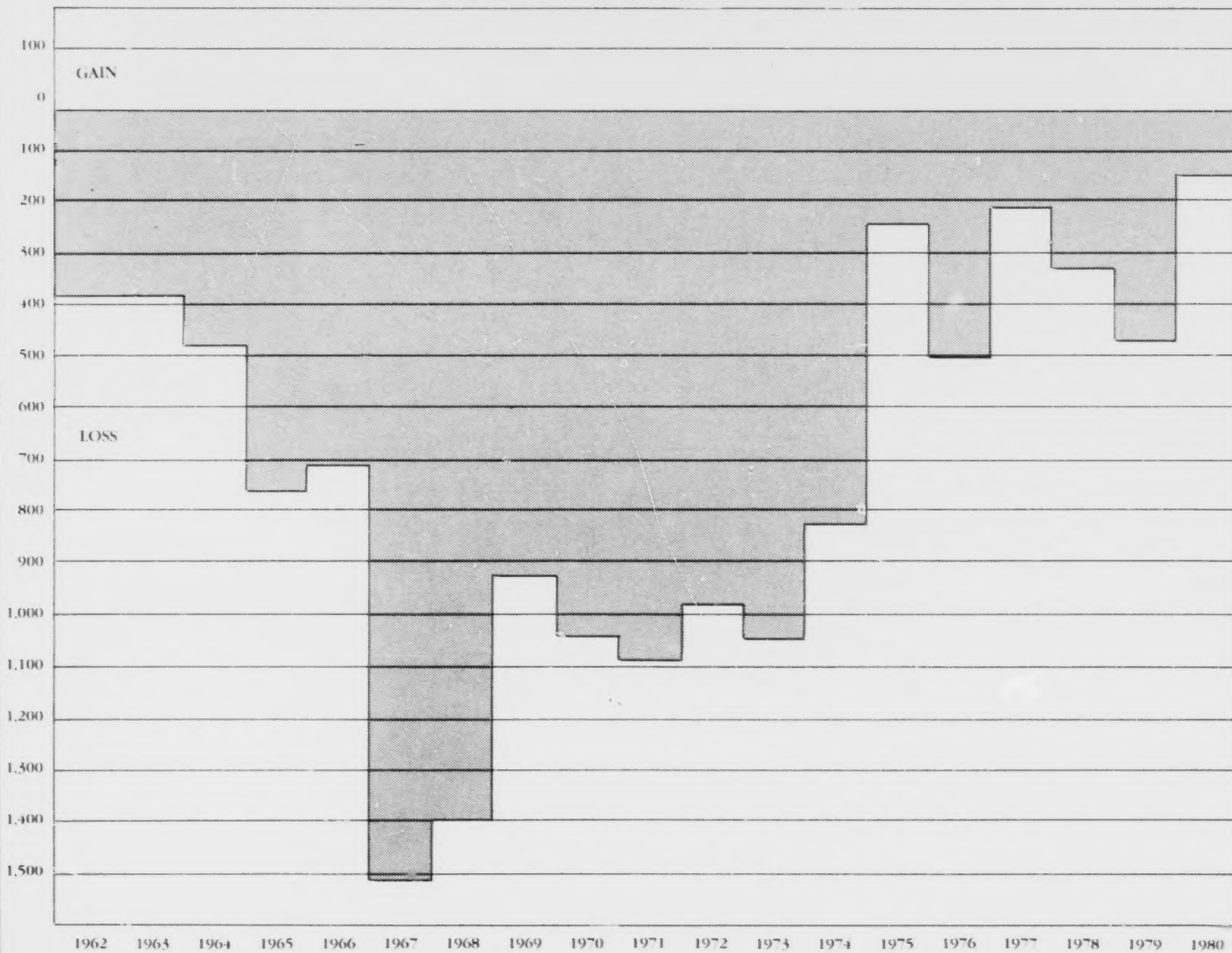
c. The Cotton Programs data are from the table above.

d. Program began in 1954.

e. Program began in 1961.

f. Partially estimated.

ANNUAL COST OF COTTON PROGRAM 1962-1980 (1976 IS 15 MONTHS) THOUSAND DOLLARS



(Continued from page 166)

years' spot prices (dropping high and low years) or 90% of the adjusted Northern Europe quotations. The minimum loan rate is to be 55¢ per pound.

3) Quality differences are to be determined by assigning equal weight to loan differentials from the preceding crop and spot market differences. Also, a representative study committee is to be established to analyze and make recommendations on alternative methods of determining loan differentials.

4) Whenever the average spot price exceeds 130% of the average for the previous 36 months, a special import quota shall be established for 90 days in the amount of 21 days of domestic mill consumption.

5) The Secretary of Agriculture may limit planted acreage by applying a uniform reduction percentage whenever he determines that the supply will be excessive in the absence of a limitation. Compliance will be required as a condition for program benefits.

6) The Secretary may authorize a land diversion program and may require participation as a condition for program benefits.

7) Disaster coverage will be required where federally-subsidized crop insurance is not available. Also, the Secretary may make disaster payments if he determines that farmers have suffered substantial losses on which federal crop insurance is insufficient, and that additional assistance is necessary.

8) The national program acreage (NPA) is to be the amount estimated as necessary to provide for domestic use, exports and adequate stocks. The allocation factor is equal to the NPA divided by the estimated harvested acres (maximum 100%) and is applied to the planted acreage to determine the number of acres eligible for any deficiency payments.

9) Cross-compliance is to be prohibited as a condition for program eligibility.

10) Quotas and allotments are to be suspended through the 1985-1986 crop.

OCTOBER COTTON CROP FORECAST

The Crop Reporting Board of the USDA placed the 1981-1982 cotton crop at 15,476,300 bales of 480 pounds each as of October 1st. This represents a 31,000-bale decrease from its September 1st report. Harvested acreage as of October 1st was estimated at 13,766,400 acres, down 28,000 acres from the September 1st estimate and the yield was estimated at 540 pounds per acre, unchanged from the September 1st report.

CCC OPERATIONS

The tables on page 168 show the relevant costs of U.S. Government programs in support of price and or

Index of prices of selected cotton growths and qualities, and price per pound of U.S. SM 1-1/16" c.i.f. Northern Europe

Month	1979		1980		1981	
	Index	U S SM 1-1/16"	Index	U S SM 1-1/16"	Index	U S SM 1-1/16"
Cents						
January	77 00	76 00	88 72	89 85	99 51	105 38
February	76 10	75 25	97 05	98 06	95 85	102 88
March	75 27	74 30	93 54	95 19	91 73	100 25
April	73 53	72 88	90 56	95 06	88 65	99 10
May	75 21	76 45	88 40	95 30	87 52	96 38
June	76 18	77 06	84 14	85 38	87 14	94 53
July	76 83	77 06	88 87	93 50	86 10	89 85
August	77 46	77 85	96 38	102 31		
September	77 98	78 44	100 63	106 88		
October	77 98	78 44	98 69	103 80		
November	80 12	80 65	98 03	104 31		
December	82 22	82 25	99 16	106 00		
Average	77 16	77 22	93 68	97 97		

¹Outlook A: Index of Liverpool Cotton Services. Average of the 5 lowest priced of 10 selected growths.

consumption of American cotton and wool since the programs began in 1933. As the fiscal year of the U.S. Government ends September 30th, 1981, data are not currently available.

U.S. & FOREIGN PRICES

The table above, reproduced from the USDA's August 1981 *Cotton & Wool Situation*, shows the trend of cotton prices in world markets. U.S. Strict Middling 1-1/16" cotton prices, c.i.f. Northern Europe, averaged 89.95 cents per pound in July (compared with 93.50 in July 1980), down from 94.63 cents per pound the previous month but 3.75 cents per pound above the Northern European index (formerly the Liverpool index) for similar qualities.

The October 29th closing prices per pound on the New York Cotton Exchange, covering Middling 1-1/16", were 65.63 cents for December 1981, 67.57 cents for March 1982, 69.15 cents for May 1982, 70.85 cents for July 1982, 74.22 cents for December 1982 and 75.10 cents for March 1983.

A HISTORY OF FARM LEGISLATION AS IT RELATES TO COTTON

Since 1933, the U.S. Government has been intimately involved with the production of cotton in this country, either through price support or adjustment legislation. The purpose of this article is to try and provide a short history of how the series of interrelated farm laws passed by Congress from 1933 to 1978 have affected cotton.

THE BEGINNINGS

Prior to the passage of the Agriculture Adjustment Act

of 1933, several attempts had been made during the 1920's to have Congress pass some form of farm relief.

The McNary-Haugen bill, before Congress from 1924 until it was vetoed a second time by President Coolidge in 1928, aimed to sell farm products for domestic consumption at a fair value and any surplus to be sold abroad at world prices.

As first introduced into Congress, the bill provided for a: 1) segregation of surplus (to be sold abroad at world prices); 2) distribution of operating costs and losses among growers by an equalization fee; 3) script device to collect equalization fees and 4) price ratio provision to determine fair prices. To determine fair prices, a board was to be established, as was a Government corporation to sell the surplus abroad.

The McKinley-Adkins bill was introduced in 1926. This bill would have provided for the payment of a bounty on the export of farm products in the form of export debentures. These debentures could then be used to pay custom duties on imports.

Under a plan introduced in 1925, a Federal agricultural marketing board was to be created. This board would then buy 90% of the amount of cotton deemed necessary for domestic consumption and sell it at cost of production plus fair profit. It was presumed that the Government had the necessary techniques and data to measure the cost of production since this had been a major area of research for the Bureau of Agricultural Economics since its organization in 1922.

The Federal Farm Board was established by the Agricultural Marketing Act of 1929. The Act was based on the assumption that, with Federal aid, cooperative marketing organizations could provide a solution to the problem of low farm prices. However, by June 30, 1932, the Board's efforts to stem the decline in farm prices had failed, mainly because of the worldwide nature of the Depression and the Board's inability to control production.

The groundwork for production control had been laid by the development of the voluntary domestic allotment plan. Under this plan, first proposed in 1926, an allotment was made to each producer, equivalent to his proportion of the crop sold for domestic use. The producer was to receive, in the form of debentures, the amount of the tariff less his share of necessary expenses.

AGRICULTURAL ADJUSTMENT ACT OF 1933

The Agricultural Adjustment Act, approved on May 12, 1933, aimed to restore farm purchasing power of agricultural commodities to their 1909-1914 levels. This goal became known as parity, a term first used in the Agriculture Adjustment Act of 1938. Parity seeks an equality of

the exchange relationship between agriculture and industry, or between persons living on farms and those living in urban areas.

The 1909-1914 period was chosen as the base period because it was considered one of relatively normal relationships between farm and industrial prices.

The Secretary of Agriculture was authorized to accomplish parity through a number of methods. These included the authorization to:

- 1) secure voluntary reduction of acreage through agreement with the producers and the use of direct payments for participation in acreage control programs.

- 2) regulate marketing through voluntary agreements with processors, associations of producers and other handlers of agricultural products.

- 3) license processors, associations of producers and other handlers of agricultural products to eliminate unfair practices or charges.

- 4) determine the necessity for and the rate of processing taxes.

- 5) use the proceeds of taxes and appropriated funds for the cost of adjustment operations, for the expansion of markets, and for the removal of agricultural surpluses.

Simultaneously, Congress declared its intent to protect the consumers' interest by readjusting farm production to a level that would not increase the percentage of the consumers' retail expenditures above that returned to farmers in the 1909-1914 base period.

In 1933, the situation confronting cotton farmers demanded immediate and drastic action. The price of cotton had fallen from 29 cents a pound in 1923 to 6½ cents a pound in 1932. Increased cotton acreage and favorable weather threatened to drive prices even lower and to increase a carryover which had already reached three times normal size. A cotton plow up campaign was announced on June 19, 1933.

Under the first cotton contracts, offered during June 1933, growers agreed to plow under from 25% to 50% of their cotton acreage in return for rental payments in cash, or in cash plus options, based roughly on potential cotton eliminated. Under a second series of contracts, signed in early 1934, farmers agreed to limit for two years their acreage planted to cotton. During 1934, they agreed to plant between 55% and 65% of their base acreage, the average planted for cotton during 1928-1932. In return they received parity payments (on 40% of base production) as well as cash rental payments.

However, more direct and drastic action on cotton was demanded and secured before the first crop under the acreage reduction program could be marketed. The Administration provided a nonrecourse loan of 10 cents a pound on the 1933 cotton crop. The loan rate, raised to

12 cents a pound for 1934-1935 and dropped to 10 cents a pound for 1935-1936, was supplemented by price adjustment payments.

The loans were made possible by the establishment, on October 17, 1933, of the Commodity Credit Corporation (CCC) by Executive Order 6340 of October 16. The funds for the loans by the CCC were secured from an allocation authorized by the National Industrial Recovery Act and the Fourth Deficiency Act. Department officials justified the loans as an emergency measure enabling growers to hold their cotton until the price could advance as a result of the production control program and of the administration's currency policy.

With the enactment of the Bankhead Cotton Control Act of 1934, voluntary control of cotton production was replaced by compulsory control. The controls became effective when two thirds of the producers voting in a referendum approved them.

As a supplement to the adjustment program, loans were made by the Reconstruction Finance Corporation to the Chinese Government to purchase American cotton. Loans were also made to American exporters to finance exports of cotton to the U.S.S.R.

THE SOIL CONSERVATION AND DOMESTIC ALLOTMENT ACT OF 1936

Overplanting, depressed prices and the Supreme Court's ruling against the production control provisions of the Agricultural Adjustment Act led to the Soil Conservation and Domestic Allotment Act of 1936. This act combined the objective of promoting soil conservation and profitable use of agricultural resources with that of reestablishing and maintaining farm income at fair levels. For the first time, the goal of income parity, as distinguished from price parity, was introduced into legislation.

Under a program begun on March 20, 1936, farmers were offered soil conserving payments for shifting acreage from soil depleting crops to soil conserving crops. Soil building payments for carrying out approved soil building practices on cropland or pasture and for planting soil building crops on cropland were also offered.

The supply and price situation was particularly serious for cotton. Prices had fallen sharply, a large crop and a 17- to 18-million-bale world carryover were forecast. Congress responded on August 24, 1937, by making \$130 million available for cotton price adjustment payments to producers agreeing to abide by the 1938 program. The program provided for payments of the difference between 12 cents a pound and the average price on the day of sale, but not to exceed 3 cents a pound. Because of limited funds, payments were made on 65% of

each producer's 1937 base.

THE AGRICULTURAL ADJUSTMENT ACT OF 1938

The Agricultural Adjustment Act of 1938 combined the conservation program of the 1936 legislation with new features designed to meet drought emergencies as well as price and income crises resulting from surpluses. This bill used the term "parity" for the first time in legislation.

The Soil Conservation and Domestic Allotment Act of 1936 was reenacted with some modifications as a major portion of the new legislation. In this act, Congress enacted the first comprehensive legislation dealing with price support. Marketing control was substituted for direct production control, and authority was based on the Congressional power to regulate interstate and foreign commerce.

The legislation's new features included mandatory nonrecourse loans for cooperating producers of cotton under certain supply and price conditions (if marketing quotas had not been rejected). Marketing quotas were to be proclaimed for cotton when supplies reached certain levels. A growers' referendum would be held to determine if the marketing quota should go into effect. Parity payments for cotton would go into effect, if the funds were appropriated. These payments were to supplement and not replace other payments.

The new provision of the legislation was the ever-normal granary plan of balanced abundance made possible by the nonrecourse loans on cotton. These loans were to serve the dual purpose of placing a plank under farm prices when threatened by a sharp decline, and of financing farmers' holdings of supplies until they were needed. Systematic storage was to serve as the basis of an ever-normal granary plan to protect both farmers and consumers.

This feature of the new legislation was closely linked in concept with the all-risk crop insurance program enacted as a separate title of the Agricultural Adjustment Act of 1938. The crop insurance program was limited to wheat for 1938, but was extended to cotton in 1942. The objective of the crop insurance program was to protect wheat producers from the hazards of crop failures from unavoidable causes, such as drought, flooding, etc.

On cotton loans, the Secretary of Agriculture had the discretion to set the rate between 52% and 75% of parity. A loan program was mandatory if prices fell below 52% of parity at the end of the crop year, or if production was in excess of a normal year's domestic consumption and exports. The cotton loan rate for 1938 was 8.3 cents a pound, 52% of parity.

Success in controlling acreage was most marked in

the case of cotton where marketing quotas were in effect every year until July 1943. This decline in acreage was not accompanied by a comparable decline in production, since the yield per harvested acre increased.

WARTIME MEASURES

The large stock of cotton which had resulted from the CCC takeover of defaulted price support loans became a military reserve of crucial importance after the United States entered World War II. Concern over the need to reduce the buildup of Government stocks changed during the war and postwar period to concern about attainment of production to meet war and postwar needs.

To ensure that farmers shared in the profits defense contracts were bringing to the U.S. economy, the loan rate on the 1941 cotton crop was raised to 85% of parity. An amendment to the Emergency Price Control Act of 1942 raised the loan rate on cotton to not less than 90% of parity.

The Stabilization Extension Act of 1944 raised the price support rate for cotton to 92½% of parity. The Surplus Property Act of 1944 further raised the price support rate for cotton to 95% of parity with respect to crops harvested after December 31, 1943, and those planted in 1944. The CCC purchased cotton at the rate of 100% of parity during 1944 and 1945.

THE AGRICULTURAL ACT OF 1948

The Agricultural Act of 1948 continued mandatory price support of cotton at 90% of parity for the 1949 crop. Without passage of this act, price support levels would have reverted to the 52% to 75% of parity mandated by the Agricultural Adjustment Act of 1938.

The parity formula was revised to make parity prices dependent upon the relationship of farm and nonfarm prices during the most recent 10 year period. This revision was made to adjust for changes in productivity and other factors which had occurred since the base period 1909-1914. The act authorized the Secretary of Agriculture to require compliance with production goals and marketing regulations as a condition of eligibility for price support.

THE AGRICULTURAL ACT OF 1949

The Agricultural Act of 1949 set the support price for cotton at 90% of parity for 1950 and between 80% and 90% of parity for 1951 if producers had not disapproved marketing quotas, or if acreage allotments or marketing quotas were in effect. For 1952 and succeeding crop years, cooperating producers were to receive support prices at levels varying from 75% to 90% of parity, depending upon supply.

The 1949 Act amended the modernized parity for-

mula of the 1948 Act to add wages paid hired farm labor to the parity index, and to include wartime payments made to producers in the prices of commodities and in index of prices received. For cotton, the effective parity price through 1954 was to be either the old or the modernized version, whichever was higher.

Due to the Korean War, neither acreage allotments nor marketing quotas were in effect for the 1951 and 1952 crops of cotton.

THE AGRICULTURAL ACT OF 1956

The Agricultural Act of 1956 established the Soil Bank, a large scale effort to bring about adjustments between supply and demand for agricultural products by taking farmland out of production. The program was divided into two parts: an acreage reserve and a conservation reserve. The objective of the acreage reserve was to reduce the amount of land planted to cotton below established allotments.

All farmers were eligible to participate in the conservation reserve by designating certain cropland for the reserve and putting it to conservation uses.

THE AGRICULTURAL ACT OF 1958

Under the provisions of this act, innovations in the cotton support program were made. For the 1959 and 1960 crop years, each cotton farmer was to choose between:

- 1) a regular acreage allotment with price support, or
- 2) an increase of up to 40% in allotment with price support 15 points lower than the percentage of parity set under option 1.

After the 1960 crop year, cotton was to be under regular allotments, supported between 70% and 90% of parity in 1961 and between 65% and 90% after 1961.

THE COTTON-WHEAT ACT OF 1964

Under the Cotton Wheat Act of 1964, the Secretary of Agriculture was authorized to make subsidy payments to domestic handlers or textile mills in order to bring the price of cotton consumed in the United States down to the export price.

Each cotton farm was to have a regular and a domestic cotton allotment for 1964 and 1965. A farmer complying with his regular allotment was to have his crop supported at 30 cents a pound (about 73.6% of parity). A farmer planting only his domestic allotment would receive a support price of up to 15% higher. For 1964 this amounted to 33.4 cents a pound.

THE FOOD AND AGRICULTURE ACT OF 1965

The Food and Agriculture Act of 1965 based the sup-

port level of cotton on a one price system. Under this system the market price of cotton was supported at 90% of the estimated world price levels, thus making payments to mills and export subsidies unnecessary. Cotton farmers' incomes were maintained through payments based on the extent of their participation in the allotment program, with special provisions for protecting the income of farmers with small cotton acreages. Participation was voluntary, although price support eligibility generally depended on participation, with a minimum reduction of 12½% from effective farm allotments required for participation on all but small farms.

THE AGRICULTURAL ACT OF 1970

To qualify for price support under this act, the farmer was required to keep a specific percentage of his cropland out of production, with acreage set aside for conservation practices. The farmer could then grow whatever he wished on his remaining land. Payment units were established at an annual ceiling of \$55,000 for producers of upland cotton, excluding commodity loans and purchases.

Cotton planters were required to set aside an amount, not to exceed 28% of the cotton allotment, to qualify for the price support program. The payment was to be equal to the difference between 65% of parity or 35 cents per pound, whichever was higher, and the average market price for the first five months of the marketing year, but not to fall lower than 15 cents a pound. Payments per pound for small farms were 30% higher than for other farms. Loans were to be available at 90% of the average world price of cotton for the previous two years.

For producers in the upland cotton program, cotton or an eligible substitute crop had to be planted, or there would be a 20% reduction in allotment the following year. Failure to plant the allotment or substitute crop for three years would result in loss of the allotment.

THE AGRICULTURE AND CONSUMER PROTECTION ACT OF 1973

The Agriculture and Consumer Protection Act of 1973 emphasized maintaining or increasing production in marked contrast to earlier programs' stress on curtailing production of upland cotton.

A new concept of target prices was introduced, to be used only when market prices fell below target levels. Payments would be made to farmers at rates equal to the amount by which market prices fell below target prices. However, payment rates could not exceed the difference between target prices and price support loans. Target prices for the 1974 and 1975 crop years were set at 38 cents per pound for upland cotton.

Target prices for the 1976 and 1977 crop years would

be the 1975 target price adjusted by an index of production costs. Productivity was to be measured by comparing the most recent national 3 year average for cotton with the 3 year average ending with the preceding year.

The parity concept was not used for establishing loan rate levels for upland cotton. Instead, the level reflected 90% of the average price of American cotton in world markets for the preceding 3 year period.

Disaster payments were authorized if eligible producers were prevented from planting any portion of their allotment because of drought, flood, natural disaster, or other conditions beyond their control. These payments were to be available when natural disaster prevented a farmer from harvesting two thirds of his normal production of cotton.

U.S. MILL CONSUMPTION

The table on page 175 shows the estimated U.S. mill consumption for cotton, wool and man made fibers. The man made fiber figure differs from that shown on page 36 of the March 1981 *Organon* in that glass fiber is excluded from this table.

For the first eight months of 1981, mill consumption of man-made fibers increased 5½% to 5,389 million pounds, whereas mill consumption of cotton decreased 10% to 1,833 million pounds. Thus man-made fibers represent some 74% of mill consumption (versus 71% for the corresponding 1980 period) and cotton usage is 25% of the total (down from 28% for the same 1980 period). Wool usage is unchanged at 1% of the total.

If this trend for cotton continues, then the estimated 1981 mill consumption is projected at some 2.8 billion pounds, the first time in recent history that mill consumption of cotton will have fallen below the 3 billion-pound level. However, because of increased imports of cotton manufactures and semimanufactures, domestic consumption (mill consumption plus net imports of manufactures and semimanufactures) of cotton for 1981 is estimated to be unchanged from the 3.3 billion pounds consumed in 1980. See chart on page 167.

The charts on page 176 detail U.S. consumption as divided between cotton, wool and man made fibers (including textile glass fiber) for recent periods.

EXPORTS TO EAST EUROPE & CHINA

The upper section of the page 177 table details the 1978-1980 exports of man-made fibers by the named 15 Western countries plus Japan to Eastern Europe and the People's Republic of China. 1980 exports amounted to 1,370.3 million pounds, an increase of 58% over the 1979 total of 865.8 million pounds. It will be noted that in 1980 the U.S.A. surpassed Japan (historically the largest exporter) as the largest exporter of man made

ESTIMATED U.S. MILL CONSUMPTION
MILLION POUNDS

ITEM	1981												YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
RAYON-ACETATE YARN	22	24	24	27	29	27	27	22					201	225
RAYON-ACETATE STAPLE	48	54	57	58	61	65	58	57					298	277
TOTAL RAYON-ACETATE	60	58	60	65	70	62	65	59					499	502
NON-CELLULOSIC YARN	294	296	318	346	306	303	286	290					2455	2280
NON-CELLULOSIC STAPLE	290	302	311	328	321	313	286	298					2455	2322
TOTAL NON-CELLULOSIC	590	598	629	664	627	616	572	594					4890	4611
TOTAL MAN MADE FIBERS^a	650	656	689	729	697	678	637	653					5389	5113
COTTON	217	245	247	248	221	230	193	240					1853	2038
WOOL	12	15	16	14	12	14	10	15					104	80
TOTAL FIBER	879	914	952	981	930	928	840	902					7326	7240
% OF MILL CONSUMPTION														
MAN MADE FIBERS	74	72	72	74	75	74	76	72					74	71
COTTON	25	27	26	24	24	25	23	26					25	28
WOOL	1	1	2	2	1	2	1	2					1	1

a. Excludes textile glass fiber and acetate cigarette tow.

fibers to the Communist countries. Following these two countries in order of export volume were West Germany and Italy.

The lower section of the table shows the destination of these exports. The principal recipient in 1980 was the People's Republic of China with 834.1 million pounds (or 61% of the total), followed by the U.S.S.R., Poland and Yugoslavia.

EXPORTS TO NONPRODUCING COUNTRIES

Exports by the aforementioned 15 Western countries and Japan to countries which do not produce man made fibers are shown in the page 178 table. In this table only the aggregate exports to nonproducing countries which imported a total of 200,000 pounds or more of man made fiber (excluding textile glass fiber) are itemized. Countries which imported lesser amounts are grouped under Other for each region. The data cannot be regarded as all-inclusive or statistically exact; rather, they indicate the relative importance of the listed countries as importers of man made fiber.

Although North Korea reportedly produces man made fibers, no official data are available. Rather, North Korea is considered a "nonproducer" and is included in this table, as are Guatemala and Kenya, which have recently started to produce man made fibers.

Countries which produce only olefin fiber, i.e., Denmark, El Salvador, Honduras and Nicaragua, are also included in this tabulation.

SUMMARY OF EXPORTS

In the table following is presented a rough summary of the distribution of the exports of the aforementioned

15 Western countries and Japan during 1980. For example, these 16 countries had a net export balance of 3,357.0 million pounds. These exports outside the 16 thus went to Eastern Europe and the People's Republic of China (line 2), to other producing countries (line 4) and to countries which do not produce man made fibers (line 3).

Line 4 is derived by subtracting the exports of lines 2 and 3 from the net exports shown in line 1. Line 5 shows the total imports of other producing countries (excluding Eastern Europe and the People's Republic of China). Line 6 shows the difference between lines 4 and 5. These poundages may include: a) imports from Eastern Europe and the People's Republic of China, b) imports from other producing countries outside the 16 and c) imports of textured and spun yarn from "nonproducing" countries. Line 1, taken from page 123 of the July *Organon*, is strictly the 16 countries' total exports less their imports and does not take into account trading among the 16 countries.

MILLION POUNDS

	1980
1. NET EXPORTS OF THE 16	3,357.0
EXPORTS FROM THE 16 TO •	
2. EASTERN EUROPE & CHINA	1,570.3
3. NONPRODUCING COUNTRIES	598.5
4. OTHER ^a (1, 2, 3)	1,388.2
5. NET IMPORTS OF OTHER ^a	1,395.5
6. OTHER ^a IMPORT DIFFERENCE (5, 4)	47.3

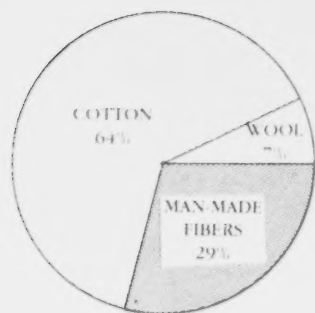
a. Free World producing countries other than the 16

1 & 5. From page 123 of the July *Organon*

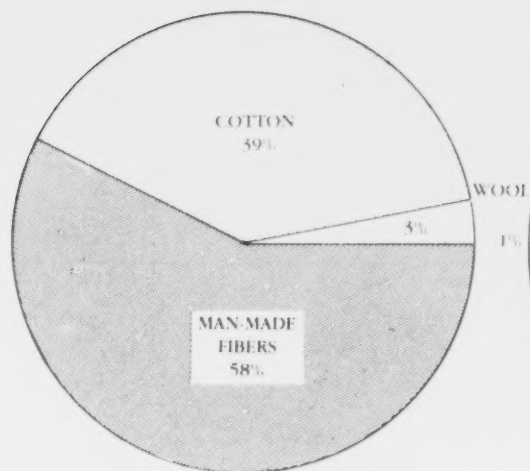
2. From page 177 herewith.

3. From page 178 herewith.

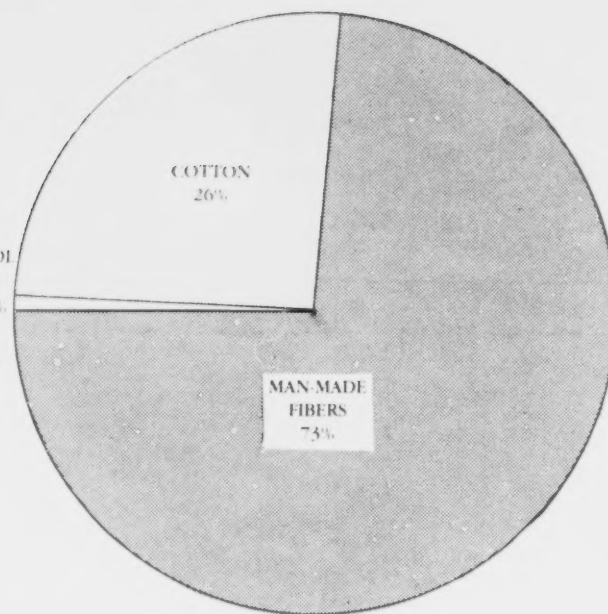
U.S. MILL CONSUMPTION - MILLION POUNDS & Percent



1960
6,558



1970
9,550



1980
11,983

SELECTED EXPORTS OF MAN-MADE FIBER TO EASTERN EUROPE & PEOPLE'S REPUBLIC OF CHINA
MILLION POUNDS

COUNTRY	RAYON-ACETATE						NON-CELLULOSIC						TOTAL		
	YARN ^a			STAPLE ^b			YARN ^a			STAPLE ^b			TOTAL		
	1978	1979	1980	1978	1979	1980	1978	1979	1980	1978	1979	1980	1978	1979	1980
EXPORTED BY															
AUSTRIA	6.4	8.0	1.8	37.4	38.2	33.8	0.1	0.1	0.0	0.0	0.4	8.0	67.8	65.7	65.0
BELGIUM-LUX	1.2	0.1	0.1	0.1	5.8	2.4	5.0	1.0	1.0	0.0	0.1	0.0	4.9	5.0	7.0
FINLAND	1.4	0.8	0.0	4.7	27.8	17.3	0	0	0	0	0	0.2	6.1	28.1	57.9
FRANCE	8.9	2.2	1.9	0.7	2.6	0.0	14.0	8.1	8.8	9.5	6.8	10.9	28.0	19.0	25.1
GERMANY-FEDERAL	14.0	11.7	17.0	4.8	4.8	11.2	38.5	44.0	82.0	38.3	55.7	116.4	167.3	193.2	225.8
IRELAND	0	0	0	0	0	0	0	0	0	0	0	0.4	0	0	1.2
ITALY	7.8	5.0	4.8	0.0	1.1	0.0	0.7	0.1	0	7.5	21.5	80.4	120.0	46.2	146.5
JAPAN	69.5	40.5	69.0	4.7	14.3	0.0	0.0	0.0	0.0	132.0	36.5	199.5	284.4	189.4	556.1
NETHERLANDS	0.1	0	0.1	0.0	0.0	0	0.0	2.8	0	7.4	10.9	0.1	9.8	51.4	2.4
NORWAY	0	0.2	0	0.4	0.0	0	0	0.1	0	0	0	0.1	0.0	0.5	10.1
SPAIN	0	0.2	0	0.0	0.2	0.0	0.0	0.0	1.0	0	2.2	24.9	12.8	11.0	50.0
SWEDEN	0	0	0	1.4	1.1	0.0	0.0	0.0	0.0	0	0	0	16.8	11.5	11.0
SWITZERLAND	1.1	0.5	0.1	0	0	0.0	8.1	7.3	7.2	1.4	1.0	2.5	10.6	8.0	8.5
UNITED KINGDOM	21.5	20.0	7.8	8.7	4.1	0.0	0.0	8.1	18.2	7.2	77.4	0.7	100.9	158.5	27.5
USA	1.2	5.8	4.7	0.0	0.0	0.0	0.0	81.0	0.7	130.0	142.0	421.4	135.0	183.2	418.6
TOTAL	94.7	87.6	82.4	150.9	200.1	224.2	171.8	173.9	295.0	592.2	404.2	768.7	1009.6	865.8	1370.3
IMPORTED BY															
BULGARIA	1.2	1.0	0.5	1.4	2.4	5.1	0.5	5.8	2.8	2.0	7.0	0.9	11.5	14.2	7.8
CHINA-PRC	26.5	21.0	24.5	99.2	78.0	104.0	48.1	29.7	180.7	470.7	228.9	569.0	505.4	578.5	844.1
CZECHOSLOVAKIA	1.7	1.5	0.8	0.8	2.8	4.5	2.8	2.0	4.4	10.4	6.7	8.7	21.7	15.9	18.4
GERMANY-DEMOCRATIC	4.2	4.4	4.5	11.0	7.0	8.5	8.0	8.1	10.5	12.0	4.9	17.0	37.5	24.4	40.7
HUNGARY	16.5	16.0	12.5	11.0	6.2	4.5	20.0	14.0	16.0	27.4	26.8	25.8	75.5	63.0	56.0
POLAND	5.4	5.1	5.5	20.8	51.1	21.1	26.1	29.0	21.2	67.9	35.8	41.8	124.2	99.6	87.0
ROMANIA	7.0	6.2	5.8	54.1	52.1	14.5	6.0	5.8	5.2	1.2	1.0	1.8	48.9	65.1	26.8
USSR	50.5	51.9	50.5	0.5	11.4	59.9	24.7	51.9	64.2	56.5	50.2	65.9	111.0	125.4	218.5
YUGOSLAVIA	5.8	2.5	1.7	5.6	8.2	4.2	50.5	29.5	54.2	56.9	42.9	41.2	74.5	83.1	80.5
TOTAL	94.7	87.6	82.4	150.9	200.1	224.2	171.8	173.9	295.0	592.2	404.2	768.7	1009.6	865.8	1370.3

a. Yarn means filament yarn, monofilaments, tire cord & tire cord fabric. b. Staple includes tow, tops and spun yarn. c. No data from Ireland were included prior to 1980.

SEPTEMBER ORGANON CORRECTIONS

Under the polyester listing for Fiber Industries Inc., on page 148 of the September issue, Fayetteville, NC (the former Monsanto facility) should be added.

The plant location table, shown on page 179, has been corrected in the olefin plant count. Also, the Fayetteville polyester plant has been included. This table supercedes the table on page 152 of the September *Organon*.

BOOK REVIEW

CIRFS 1981 YEARBOOK

International Rayon and Synthetic Fibres Committee (CIRFS), 29 rue de Courcelles, Paris 75 008, France; 136 pages; 1981

CIRFS has recently published the 1981 edition of its statistical yearbook. This trilingual booklet (English, French & German) presents statistical data on textile

fiber production, consumption and foreign trade, with particular emphasis on the man-made fibers.

Annual production data are shown by country and by cellulosic or non-cellulosic yarn or staple; those data concerning consumption are given by the main utilizing sectors. The section on consumption by secondary trade or end use covers all the major apparel, home furnishings and industrial uses. Also included is the EEC consumption (by generic fiber) in carpets & rugs and non-wovens, both by fiber and end use.

Imports and exports of yarn, staple, spun yarn and fabrics made of the cellulosic and non-cellulosic fibers in several countries, and in world areas, are found in the chapter dealing with foreign trade in man made fibers. This expanded section shows the by-country detail of exports from, and imports to, West Europe, Japan and

(Continued on page 179)

EXPORTS OF MAN-MADE FIBERS TO CERTAIN NONPRODUCING COUNTRIES^a

MILLION POUNDS

AREA & COUNTRY	RAYON-ACETATE				NON-CELLULOSIC			
	YARN ^b		STAPLE ^b		YARN ^b		STAPLE ^b	
	1979	1980	1979	1980	1979	1980	1979	1980
EUROPE								
ALBANIA	0.2	0	0.1	0.1	0.1	0.1	0.4	
DENMARK ^d	0.6	0.5	0.8	0.8	52.7	61.2	57.2	57.9
EUROPEAN COMM.	0	0	0	0	0.2			
IRELAND ^e	0		0		0.2		0.2	
ITALY ^d	0	0					0.1	
TOTAL EUROPE	0.8	0.5	0.9	0.9	52.8	61.7	57.6	58.6
AMERICAS								
BOLIVIA			0.5	0.5	0.7	0.4	5.1	5.2
DOMINICAN REP.		0.2	0.1	0.4	4.5	4.8	0.5	1.5
EL SALVADOR	0.8	0.5	2.3	2.2	8.7	5.5	10.2	9.9
GUATEMALA	1.0	0.6	1.2	0.8	6.0	8.4	0.8	12.0
GUAYANA SURINAME		0	0.2	0.2		0.5		0.1
HAITI	0	0	0.2		7.2	0.0	0.1	0.1
HONDURAS	0		0.9	0.9	4.0	1.7	0.7	0.2
JAMAICA	0.1		0.2	0.1	1.4	0.7	0.1	0.1
Nicaragua			0.4	0.3	0.1	0.2	0.6	0
PANAMA	0	0	0		0.2	0.2	0.2	0.2
PARAGUAY		0	0.2	0		0.1	0.1	0.1
PERU & DOMINICAN	0.1	0.1	0.2		0.0	0.4	0.5	0.2
OTHER ^e						0.2	0.3	0.1
TOTAL AMERICAS	2.0	1.2	6.1	4.6	24.2	20.9	25.7	30.6
ASIA & OCEANIA								
AFGHANISTAN	0.4	0.6	5.1	1.1	0.7	2.2	0.1	0.1
BAHRAIN		0	0.4					
BRUNAI		0.5	1.2	0.1	0.2	1.4	2.7	
CHINA		0.8	0.5	0.5	0.4	0.7	0.5	
INDONESIA	5.0	2.0	5.9	10.2	7.1	7.0	79.0	59.0
JORDAN	0.1		0.1	0.1	0.5	0.5	1.0	0.8
KOREA, NORTH ^f	0		8.7	0.1	0.9	0.9	22.0	4.5
KUWAIT	0		0	0.2	0.4	0.1	0.2	
LIBANON	1.0	0.6	0.5	0.6	5.1	4.1	2.6	8.5
NEPAL	0	0	0	0	0.5	0.1	0.0	0.7
SAUDI ARABIA	0.5	0.1		0.1	0.0	0.0	0.0	0.0
SINGAPORE	0.7	0.6	5.7	5.5	1.0	5.2	17.5	18.0
SRI LANKA	0.1	0.1	1.7	1.2	2.2	1.6	1.0	0.4
SYRIA	5.5	1.1	0.7	1.2	10.4	10.8	5.8	7.7
UNITED ARAB EMIRATES		0.2	0.9		0.1		0.7	
ASIA & OCEANIA (continued)								
VIETNAM	1.5	5.0	0.1	1.1	1.2	1.6	2.6	4.9
YEMEN ^g				0.1	0.1			0.2
TOTAL A & O	11.5	9.2	23.4	24.1	37.9	40.1	136.5	104.4
AFRICA								
ALGERIA	5.1	5.2	20.8	12.8	24.2	55.1	10.2	52.4
ANGOLA	0	0	0.3	0.2	0.5	0.4	0.2	0.5
BOTSWANA	0	0	0	0	0.5	2.0	0.4	
CAMBODIA	0.1		1.9	1.6	0.2	0.2	1.5	1.0
CANARY ISLANDS			0.1	1.5			0.1	0.5
CHAD	0	0	0	0	0.2		0	0
ETHIOPIA					1.7	1.0	2.5	2.5
GHANA	0.1	0.1	0.5	0.4	1.5	1.0	0.8	0.4
GUINEA-CONGO	0.1	0.1	0.4	1.0	0.8	1.5	1.6	2.0
KENYA & UGANDA	0.1	0.2	4.0	4.5	0.0	5.4	0.7	0.2
LIBYA	1.1			0.2	1.2	0.8	0.0	1.0
MADAGASCAR			0.1	4.5	0.1	1.0	0.1	5.0
MALAGASY	0	0	0	0	0.5	0		0
MALAWI	0	0	0.1	0.1	0.4	0.2		0
MALIBIUS			0	0.5	0.1	0.0	5.4	4.0
MOROCCO	5.7	5.2	21.5	21.8	22.1	20.8	58.0	40.5
MOZAMBIQUE		0	0.1		0.7	0.1	0.2	
NEGER	0	0		0	0	0.2	0.0	0.1
SENEGAL	0.1		0.1	0.2	0.2	0.1	0.5	0.0
SERRA LEOE				0.2	0.1			
SOMALIA	0	0	0.0	0				0
SIYAN	0.1	0.1	0.2			0.1	0.4	0.1
SWAZILAND	0	0	0	0		0.1		0.1
TANZANIA	0.2	0.1	0.7	1.5	5.2	5.9	0.7	2.2
TUNISIA	1.2	1.4	5.1	4.7	6.8	10.2	11.4	15.0
UPPER VOLTA		0	0.2	0			0.1	
ZAMBIA	0.1	0.1	0.1	0.1	0.9	1.4	0.1	0.1
ZAMBIA	0.1	0.9	1.0	0.9	1.2	0.5	0.5	
ZIMBABWE	0			0.4		0.5	0	
OTHER ^h					0.1		0.2	
TOTAL AFRICA	14.1	8.6	58.4	56.7	72.3	91.0	94.5	120.9
GRAND TOTAL	28.4	19.5	92.5	91.8	187.2	192.7	295.9	294.5

a. See the upper section of the page 177 table for a listing of the 16 exporting countries. Also see text page 175 regarding the concept and meaning of this table.

b. Yarn means filament yarn, monofilaments, tire cord & tire cord fabric. Staple includes spun yarn.

c. The Danish data are net imports from the 16 countries.

d. Andorra, Gibraltar and Vatican City.

e. Bahamas, Barbados, Belize, Bermuda, Cayman Is., French Guiana, Guadeloupe,

Martinique, Netherland Antilles, St. Pierre & Miquelon, U.S. Virgin Is. and West Indies.

f. See text page 175 regarding this country.

g. Fiji, French Polynesia, Macao, Muscat & Oman, New Caledonia, Papua New Guinea, Qatar, Samoa and North & South Yemen.

h. Benin, Burundi, Central African Republic, Cote d'Ivoire, Comoros, Congo, Equatorial Guinea, Gabon, Gambia, Guinea-Bissau, Liberia, Mali, Mauritania, Reunion, Rwanda and Togo.

the U.S.A. and was used in preparing the tables on pages 177 and 178 herewith.

MAN-MADE FIBER PRODUCERS' HANDBOOK SERVICE

The Textile Economics Bureau, Inc., is offering its Man Made Fiber Producers' Handbook service to subscribers for an annual fee of \$1,250, payable in four quarterly installments.

The service consists of loose leaf pages of U.S. man made fiber data collected directly from U.S. producers. These data serve as the base from which the U.S. man made fiber data published in the *Organon* are

derived.

The pages are 8 1/2" x 11", three hole punched, ready for insertion in a binder which is provided. The pages are updated monthly, quarterly, semiannually and or annually.

Monthly data are issued about the 20th of each month, covering production, domestic shipments, exports and ending stock for acetate yarn, rayon staple and the major non-cellulosic fibers (acrylic, nylon, olefin and polyester). Nylon yarn shipments are broken down between industrial, carpet and textile types, and textile types are further divided as feed or producer textured. Polyester yarn shipments are divided between industrial and textile types, with the latter further divided into seven denier classes and also between feed and producer textured. Deliveries of acrylic/modacrylic, nylon and polyester staple+tow are divided between carpet and other types as well as by denier classes.

Quarterly data are issued from six to eight weeks following the end of each quarter for acetate yarn, rayon staple, the major non-cellulosic fibers and textile glass fiber. These data also cover production, shipments and stock, with shipments divided into the primary and secondary trades or end uses within the broad areas of apparel, home furnishings and industrial uses. The three sectors are also divided between woven, knit and other. Waste shipments are also handled on a quarterly basis.

Current and projected producing capacity for all types of man-made fibers are covered semiannually.

The annual pages summarize the aforementioned monthly and quarterly series, while also including data on rayon yarn, acetate staple and the smaller volume non-cellulosic fibers, such as saran, spandex and vinyon. The annual pages on secondary trade or end use go into considerably more detail than the quarterlies and include a page on shipments of man made fiber waste by end use.

The service fee of \$1,250 includes the new Handbook and the latest bound Base Book, 1971-1975. Limited quantities of earlier Base Books are available for an additional fee.

For further information on this service, write Textile Economics Bureau, Inc., 101 Eisenhower Parkway, Roseland, NJ 07068 or telephone (201) 228-1107.

SANS STATISTICS

So you thought polyester was a man made fiber? Think again! The following article appeared in the July 27th, 1981, issue of *Chemical & Engineering News* showing that nature was producing polyester long before it was a glint in man's eye. Thus polyester is **truly** a natural fiber.

LOCATION OF U.S. MAN-MADE FIBER
PRODUCT-PRODUCING PLANTS

STATES & AREA	RAYON & ACETATE	NON-CELLULOSIC						TEXTILE GLASS	GRAND TOTAL
		ACRYL	NYLON	OLEFIN	POLYESTER	OTHER	TOTAL		
NEW ENGLAND									
CONNECTICUT							1		1
MASSACHUSETTS							1		1
NEW HAMPSHIRE							1		1
VERMONT							2		2
TOTAL N.E.			1	6	1	1	9	1	10
MID ATLANTIC									
DELAWARE							2		2
MARYLAND							1		1
PENNSYLVANIA							4		4
NEW JERSEY							8		8
NEW YORK							8		8
DELAWARE							3		3
TOTAL MID ATL.	2		4	10	4	3	21	1	24
PIDMONT									
NORTH CAROLINA							22	2	24
SOUTH CAROLINA							24	2	26
GEORGIA							18	2	20
WEST VIRGINIA							5		5
TOTAL PIDMONT	3	5	19	19	22	4	67	4	74
SOUTH									
ALABAMA							4		4
FLORIDA							5		5
LOUISIANA							11		11
ILLINOIS							4		4
MISSISSIPPI							11	4	15
TENNESSEE							2	2	4
LOUISIANA							2		2
TOTAL SOUTH	4	5	6	26	6		41	6	51
MID WEST & WEST									
CALIFORNIA							4		4
IDAHO							2		2
KANSAS							1		1
MICHIGAN							1		1
MINNESOTA							1		1
MISSOURI							1		1
OHIO							1	5	6
WASHINGTON							1		1
WISCONSIN							1		1
TOTAL WEST			1	11			12	4	16
TOTAL # OF PLANTS	9	6	51	72	33	8	150	16	175
TOTAL # OF STATES	6	5	12	27	11	6	50	9	50

Acetate includes triacetate. Acryl means acrylic & modacrylic. Nylon includes aramid.

Other non-cellulosic includes 1) fluorocarbon; 2) fluoropolymer; 3) polycarbonate; 4) saran; 5) spandex and 6) vinyon.

"WILD BEE FOUND TO MAKE BROOD SAC OF POLYESTER"

Entomologist Suzanne Batra at the Department of Agriculture has found that the female of a species of wild bee (genus *Colletes*) secretes a polyester from which she constructs a brood sac for holding larvae, plus pollen and nectar. The brood sac is about the size of a thimble and resembles a plastic sandwich bag. Other species of *Colletes* make brood sacs of silk, but hers is the first found to secrete polyester, according to Batra, who toils at USDA's facilities at Beltsville, Md.

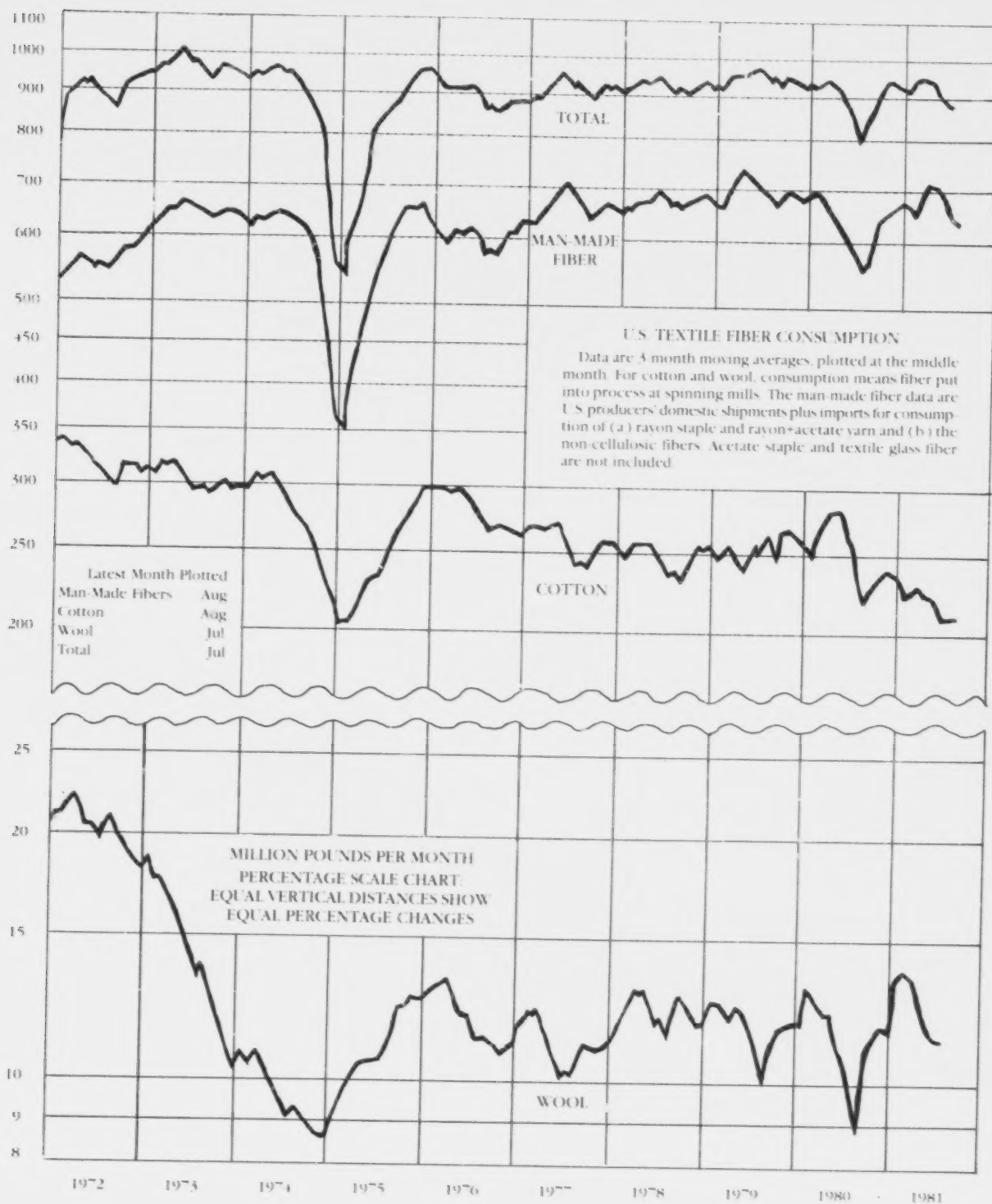
The source of the polyester is the Dufour's gland, which occupies most of the bee's abdomen. The female forms the brood sac by spreading the clear secretion from the gland with her tongue and legs. How the Du-

four's gland makes the polyester is not fully understood, nor are all the functions of the gland known.

Batra believes that bees that produce silken brood sacs probably are lowest on the evolutionary ladder. Next come the polyester producers and then honeybees. Batra's wild bees pollinate plants, but make no honey.

In August 1980 in Australia, Batra studied the evolutionary chain of wild bees of the family Colletidae. They are believed to be the first offshoot of the primitive Australian wasps. The USDA entomologist believes there may be intermediary types of Colletidae that harbor clues to the polyester-making ability of *Colletes*.

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**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN**
THOUSAND POUNDS

ITEM	1981									8 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
RAYON*ACETATE YARN, MONOFIL & STRIPS											
CANADA	518	125	8	1	12	5	0	15		484	502
MEXICO	101	70	105	41	191	100	81	240		1128	1101
BELGIUM	0	50	25	0	70	0	25	0		174	0
WEST GERMANY	242	200	555	200	049	170	115	357		2577	745
NETHERLANDS	230	505	555	295	202	194	572	550		2613	1157
SPAIN	142	0	0	0	47	0	40	0		225	0
UNITED KINGDOM	1	10	0	0	41	0	90	75		221	1547
JAPAN	04	0	0	0	55	56	0	28		101	500
SOUTH KOREA	1	0	0	40	40	0	0	0		81	120
ALL OTHER COUNTRIES ^a	19	4	0	0	59	20	5	58		125	200
TOTAL R+A YARN	1184	1151	1084	581	1574	600	726	1087		7787	5728
RAYON*ACETATE STAPLE+TOW											
CANADA	609	474	650	451	421	802	411	405		4517	820
AUSTRIA	751	114	100	805	708	250	405	908		5102	754
FRANCE	18	85	50	45	0	45	0	0		228	57
WEST GERMANY	0	0	85	0	0	0	0	45		128	125
ITALY	0	12	0	0	80	10	105	115		284	0
SWEDEN	552	254	184	0	187	227	227	208		1089	2573
UNITED KINGDOM	220	70	7	157	205	255	549	75		1528	1245
JAPAN	90	147	74	118	59	88	105	87		708	582
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0		2	50
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449		11106	6010
NON-CELLULOSIC YARN, MONOFIL & STRIPS											
CANADA	50	98	4	570	415	280	889	205		2078	778
MEXICO	14	20	12	15	44	9	5	99		210	14
AUSTRIA	0	0	0	0	04	0	41	10		115	1
FRANCE	94	150	205	210	100	109	245	125		1272	452
WEST GERMANY	250	582	275	501	420	455	520	508		3021	2155
ITALY	52	152	45	0	108	70	0	555		750	105
NETHERLANDS	0	1	0	0	49	28	0	12		129	122
SPAIN	01	0	0	0	0	0	0	179		240	2
UNITED KINGDOM	57	114	57	4	5	1	4	15		240	400
JAPAN	500	071	557	770	602	745	773	601		0885	8412
SOUTH KOREA	5	50	5	5	45	2	1	5		06	0
ALL OTHER COUNTRIES ^c	5	0	14	0	55	10	52	5		145	045
TOTAL N.C. YARN	892	1010	949	2087	2035	1614	1818	2185		13188	13115
NON-CELLULOSIC STAPLE+TOW											
CANADA	528	550	449	551	714	425	1250	649		4090	1740
MEXICO	190	28	97	510	095	217	141	584		2200	24
BELGIUM	0	150	0	152	70	2	5	80		595	4
FRANCE	44	797	198	508	555	254	528	168		4050	24
WEST GERMANY	541	1905	1025	2245	1044	1545	2580	2455		14190	7010
ITALY	7	815	010	425	717	104	1420	649		4815	070
NETHERLANDS	0	59	44	80	45	15	15	98		320	4
POLAND	44	58	0	0	89	0	0	5		174	55
ROMANIA	0	0	152	84	28	0	25	0		207	470
UNITED KINGDOM	208	508	520	175	204	815	715	607		5011	1005
JAPAN	828	555	807	495	545	478	454	288		5500	4270
TAIWAN	524	745	588	875	585	800	198	852		5051	7717
ALL OTHER COUNTRIES ^d	0	09	0	16	1	54	02	72		274	114
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259		42635	24108

Other countries supplying 1981 poundages are:

a. Austria +1, Greece 39, Italy 5, Sweden 2, Taiwan 19 & Yugoslavia 21

b. Mexico 1 & Venezuela 1

c. Australia 1, Belgium 6, Denmark 45, Hong Kong 2

Portugal 8, Sweden 10, Switzerland 08 & Taiwan 5

d. Austria +1, Brazil 1, Costa Rica +0, Hong Kong 12, Ireland 95, Israel 31, Portugal 15, South Africa 25 & Switzerland 18

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1-1-78	1981									8 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
RAYON+ACETATE												
YARN, SINGLES												
TEXTURED	5101100 & 0200	1	10	0	242	4	0	0			290	844
OTHER	5101100 & 0240 ^a	1182	1150	1084	550	1570	000	712	1072		7498	4884
MONOFILAMENTS	9001510 & 0610	1	2	0	0	0	0	0	0		5	0
STRIPS, CUT & UNMER	9002000 ^a	0	0	0	0		0	5	15		20	0
SUBTOTAL ABOVE		1184	1151	1084	550	1574	600	726	1087		7787	5728
STAPLE	9004200 & 4525	1027	1000	927	887	1442	900	1511	1517		9507	4458
GROUPE FILAMENTS	9005010 & 5110	249	155	64	185	252	205	451	152		1590	1552
SUBTOTAL ABOVE		1066	1139	991	1072	1674	1253	1662	1669		11106	6010
WASTE, ADVANCED & NOT ADVANCED	9001015 & 7510	57	7	57	0	45	40	65	40		207	191
NON-CELLULOSIC FIBERS												
YARN, SINGLES												
TEXTURED: NYLON	5101100 & 0200	197	217	215	580	507	575	471	150		2727	650
POLYESTER	5101100 & 0210	27	7	22	15	79	80	1	204		525	309
OTHER	5101110 & 0214	17	50	8	17	49	25	85	21		270	173
OTHER: NYLON	5101100 & 0240	204	525	127	542	687	354	317	410		2972	2748
POLYESTER	5101100 & 0250	111	411	299	399	682	491	208	935		5421	6821
OTHER	5101170 & 027 ^b	170	185	115	188	164	50	182	81		1147	900
MONOFILAMENTS	9001200 & 0340 ^c	145	200	149	521	258	220	458	265		2014	5280
STRIPS, CUT & UNMER	9002000 & 2500 ^a	21	11	10	21	9	15	11	13		118	168
SUBTOTAL ABOVE		892	1610	949	2087	2035	1614	1818	2183		13188	13113
STAPLE: NYLON	9004358	525	2080	1698	2544	2455	1574	4055	5238		18704	985
POLYESTER	9004342	152	111	506	661	847	505	528	570		3524	910
ACRYLIC	9004345	1009	1504	907	1201	1005	565	730	695		7772	9545
OTHER	9004340	5	0	344	1	5	71	474	79		949	119
GROUPE FILAMENTS	9004355	409	961	674	1088	852	1281	350	1285		10065	9305
NYLON	9005010 & 5130	68	50	68	157	155	190	500	25		1197	665
POLYESTER	9005010 & 5140	0	42	0	0	34	90	18	30		224	117
ACRYLIC	9005010 & 5150	181	255	178	291	195	512	572	250		2040	1967
OTHER	9005015 & 5105	65	110	502	100	150	180	342	77		1410	495
SUBTOTAL ABOVE		2514	5815	4436	6078	5714	4638	7181	6299		42635	24108
WASTE, NOT ADVANCED: NYLON	9001020	1508	1587	2822	1715	2154	1607	2249	2544		10044	8515
POLYESTER	9001030	1071	1810	1547	1005	1475	1521	1488	1400		11074	2889
ACRYLIC	9001045	289	258	200	230	570	269	87	514		2252	1506
OTHER	9001060	52	205	265	328	127	341	190	540		1820	705
NOIS & GARNETTE FIBERS	9001080 & 7000 ^a	0	0	0	0	0	0	20	28		57	4
OTHER WASTE, ADVANCED	9007525 & 7505	119	63	5	35	2	6	25	58		309	452
TOTAL MAN-MADE ABOVE		9602	13643	12352	13155	14947	11679	15464	15717		106519	63259
OTHER MAN-MADE FIBER TOPS, YARN & THREAD												
YARN, FLEED												
TEXTURED: CELLULOSIC	5101100	0		24	0	0	0	0	0		24	0
NON-CELLULOSIC	5101015 ^d & 1010 ^e	268	124	215	515	564	205	542	535		2224	782
OTHER: CELLULOSIC	5101090 & 1135 ^f	16		0	0	0	0	0	1		17	07
NON-CELLULOSIC	5101050 & 1070 ^g	20	27	20	44	20	9	125	14		280	350
SPUN YARN: CELLULOSIC	5104005 & 4040 ^h	10	25	24	52	57	24	93	180		495	405
OTHER	5104015 & 402 ⁱ	1762	1454	1794	1740	2109	1512	1542	1514		13082	14055
OTHER YARNS, NES (NOT CHENILLE)	5104020 & 8000	352	109	261	415	609	455	501	550		2890	1725
HANDWORK YARNS & SEWING THREAD	5109000 & 0140	247	250	188	190	262	292	220	208		1845	1514
SILVER TOPS & RIBBING	9000000	386	474	522	262	175	245	570	505		2828	2124
TEXTILE GLASS FIBER	9002800 & 2900 ^j	1150	441	1047	551	645	1485	1575	3434		10352	5058
GRAND TOTAL ABOVE		13821	16526	16231	16702	19219	15739	20098	22104		140440	89387

SOURCE: U.S. Census Bureau

NES: Not elsewhere specified

^a These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

^b Also includes 51010510 & 0610

^c Also includes 51010550, 0550, 0650 & 0650

^d Also includes 90010340, 0365, 0500, 0650, 0640 & 0665

^e There may be some acetate yarn in these data, but the Census

figures do not permit a segregation

^f Also includes 5101110 & 1114

^g Also includes 5102010 & 2110

^h Also includes 5101150, 1155, 1170, 2050, 2050, 2140 & 2150

ⁱ Also includes 5105005 & 5030

^j Also includes 5104040, 4047, 4050, 5015, 5046, 5047, 5049 & 5051

^k Chiefly rayon. Also includes 9009800 & 9900

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981									YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
MAN-MADE FIBER DATA^c											
YARN*MONOFILAMENTS^d											
TOTAL SHIPMENTS^b											
ACETATE	20.9	21.6	21.5	27.1	26.4	25.2	24.6	19.9	20.8	208.0	233.7
NYLON ^e INDUSTRIAL ^f	34.5	34.4	37.2	35.9	32.3	34.3	30.0	35.7	35.0	309.9	326.4
LOW DENIER INDUSTRIAL ^g	3.0	3.0	4.8	2.8	2.3	3.3	2.5	2.9	3.5	27.1	27.0
CARPET	67.1	63.8	65.3	73.4	65.3	61.3	56.8	52.9	48.1	554.0	540.0
TEXTILE	33.7	36.6	38.4	37.3	36.1	37.3	31.7	34.8	35.8	321.7	328.0
POYESTER INDUSTRIAL ^f	25.5	24.5	27.3	29.0	24.7	25.5	26.9	27.3	26.2	236.7	212.5
LOW DENIER INDUSTRIAL ^g	2.1	2.1	2.5	2.9	2.7	2.5	2.5	1.9	2.3	21.5	22.8
TEXTILE	94.8	96.0	111.3	123.6	106.4	108.6	102.1	107.3	103.9	954.0	869.0
OLEFIN ^h	56.0	55.8	57.4	55.5	56.8	52.0	53.0	53.7	52.8	494.0	464.0
TOTAL NON CELLULOSIC ABOVEⁱ	316.7	316.0	343.2	360.4	326.6	324.8	306.1	316.5	307.6	2917.9	2790.9
STAPLE*TOW*FIBERFILL^j											
RAYON	40.9	35.4	37.9	41.4	40.8	37.5	39.4	36.8	38.7	348.8	342.1
NYLON ^e	70.7	67.5	73.9	80.0	74.8	69.2	62.2	52.8	44.9	596.0	515.3
ACRYLIC*MODACRYLIC	59.3	62.2	63.8	65.3	61.9	60.1	51.9	50.8	54.3	538.0	583.8
POYESTER	208.6	211.1	202.5	245.6	218.6	211.9	212.8	232.9	223.4	1965.4	1845.8
OLEFIN*VINYLON	10.8	10.5	11.2	11.7	12.4	11.7	10.7	11.3	10.6	100.7	85.1
TOTAL NON CELLULOSIC ABOVE	340.9	351.1	351.3	400.6	367.7	352.9	337.6	356.8	333.2	3200.7	3030.0
END-OF-MONTH STOCK											
YARN*MONOFILAMENTS											
ACETATE	17.0	15.4	15.8	13.5	11.6	12.1	11.4	13.7	12.6	12.6	17.7
NYLON ^e INDUSTRIAL ^f	37.5	37.9	35.7	36.7	32.5	31.2	33.8	38.3	37.2	37.2	30.0
LOW DENIER INDUSTRIAL ^g	3.0	3.2	3.1	2.5	3.4	3.2	3.0	3.8	3.6	3.6	3.0
CARPET	37.7	38.2	38.5	33.4	36.4	39.5	37.9	34.9	72.4	72.4	39.3
TEXTILE	42.8	43.1	41.8	41.7	35.0	41.4	45.1	44.5	45.7	45.7	48.8
POYESTER INDUSTRIAL ^f	23.7	23.1	21.3	20.9	23.7	24.7	24.1	22.7	22.0	22.0	25.1
LOW DENIER INDUSTRIAL ^g	3.6	3.4	3.5	3.6	3.3	3.6	3.6	3.3	2.7	2.7	4.0
TEXTILE	100.2	104.1	87.3	67.5	72.5	70.0	89.4	84.1	84.0	84.0	91.7
OLEFIN ^h	63.9	62.3	61.6	60.4	58.3	62.3	61.8	62.2	63.1	63.1	70.8
TOTAL NON CELLULOSIC ABOVEⁱ	313.3	315.3	292.6	267.7	283.7	291.9	319.3	323.8	331.3	331.3	312.7
STAPLE*TOW*FIBERFILL											
RAYON	24.2	25.1	29.3	28.1	25.4	23.7	23.2	25.7	27.3	27.3	34.8
NYLON ^e	33.3	37.4	37.3	33.4	40.1	38.5	61.0	71.8	72.4	72.4	39.2
ACRYLIC*MODACRYLIC	76.5	76.4	74.3	68.5	67.1	63.8	67.8	64.2	64.6	64.6	63.1
POYESTER	174.2	182.3	190.3	178.5	181.7	185.1	195.4	177.4	176.2	176.2	160.5
OLEFIN*VINYLON	16.6	16.9	16.2	15.3	15.2	15.5	16.7	17.9	20.0	20.0	22.6
TOTAL NON CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.9	340.9	331.3	333.2	333.2	285.4
WOOL & COTTON CONSUMPTION											
APPAREL CLASS WOOL	11.0	12.1	14.6	14.2	11.5	14.0	9.3	12.3		97.0	85.0
CARPET CLASS WOOL	9.8	9.8	9.9	9.8	9.8	9.8	9.7	1.1		6.7	7.0
TOTAL RAW WOOL	11.8	12.9	15.5	14.0	12.3	13.8	10.0	13.4		103.7	92.0
RAW COTTON	217.4	245.4	217.1	238.1	220.8	244.4	193.1	235.7	239.3	2081.3	2302.2

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an

Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple-tow data are available annually only; see page 21 of the February issue.

Textile Organon

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Textile Fiber End Use Survey

Highlights

1980 End use consumption totaled 12,070 million pounds, 6½% less than the 1979 total of 12,927 million pounds. The 1980 total divides as 8,781 million pounds man-made fibers (down 7½% from last year), cotton 3,119 million pounds (down 4% from a year ago) and wool 170 million pounds (down 1½% from 1979).

For 1980 apparel represents 39% of all end uses (up from 36½% in 1979), home furnishings 30½% (down from 31½% last year), industrial 25½% (down from 27% in 1979) and exports 5% (unchanged).

The first 14 pages of this *Organon* issue present the results of the latest in a series of surveys of United States textile fiber consumption by end use. Annual data are shown for the seven years 1974 through 1980. The data of this survey for 1974 and forward supersede those of similar earlier surveys.

Compared with last year's survey, significant revisions have been made in the following Apparel end uses: Sweaters and Related Accessories (8.29), Retail Piece Goods (55), and Top- or Bottomweight Fabrics. These revisions in the data for 1974-1979 are indicated by a black circle (●). Revisions to other series for the years 1974-1979 are also indicated by a black circle (●). Also

see footnote (r) on page 193. As more reliable data become available, they are incorporated into the survey.

Other significant changes are in the Home Furnishings section, i.e., Bedspreads and Quilts (45) and Carpets & Rugs (50). Primarily due to the fact that the Census Bureau discontinued the reporting of fiber consumed in carpet face yarns at the beginning of 1980, we have based the revised data on producers' shipments plus imports. The figures no longer reflect any inventory plus goods-in-process increments or decrements (see page 177 of the November 1980 *Organon* issue).

Miscellaneous Industrial & Other Consumer Type Products has been revised upward to include, among other items, the substantial poundages of textile glass fiber used in the manufacture of roofing shingles and built up roofing.

When the changes described above are kept in mind, the data in this survey may be used in conjunction with earlier issues of the *Organon* as follows:

YEARS	<i>Organon</i> ISSUE
1949-1955	November 1961
1956-1959	January 1966
1960-1963	January 1970
1964-1965	November 1971

Our usual quarterly review begins on page 199 here-with.

END USE CONSUMPTION CHANGES

END USE	TOTAL FIBER								MAN-MADE FIBER							
	MILLION POUNDS				% OF TOTAL END USE ^a				MILLION POUNDS				% OF TOTAL END USE ^a			
	74-77	1978	1979	1980	74-77	1978	1979	1980	74-77	1978	1979	1980	74-77	1978	1979	1980
APPAREL	4813	4977	4739	4707	41.4	39.0	36.6	39.0	4021	4155	2971	2947	37.4	33.9	31.3	33.6
HOME FURNISHINGS	5489	5996	6095	5600	30.0	31.4	31.7	30.3	2542	4098	5217	2828	31.4	33.2	33.8	32.2
INDUSTRIAL & OTHER																
CONSUMER TYPE PRODUCTS	2854	3324	3475	3085	24.0	26.1	26.9	25.6	2413	2842	3005	2654	28.7	30.5	31.0	30.2
EXPORTS	457	449	620	618	4.0	3.5	4.8	5.1	203	225	513	352	2.5	2.4	3.3	4.0
TOTAL END USE	11613	12745	12927	12070	100	100	100	100	8069	9320	9506	8781	100	100	100	100

74-77 means the annual average for the years 1974-1977. The 1978, 1979 & 1980 data are for single years only. All data are drawn from the End Use Consumption Summary table on page 190.

a. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add to 100% vertically in each case.

YEARS	Organon ISSUE
1966-1967	November 1973
1968-1969	November 1975
1970	November 1976
1971-1972	November & December 1978
1973	November 1980

In this manner, a continuous statistical series covering the 32 year span from 1949 through 1980 may be obtained.

FIBERS MEASURED IN THE SURVEY

The man made fiber data are separated as Rayon+Acetate (the cellulosic fibers) and Other, which are the non-cellulosic fibers plus textile glass fiber. Except for carpets, no separation of the data by generic type within the end uses is shown. For a description of the man made fibers included, see footnote (2) under General Notes on page 193.

The cotton end use data cover raw cotton. Cotton waste and cotton linters poundages are excluded, except as described in the following section on waste.

The wool data cover both virgin and reprocessed & reused wool.

In all cases, the objective is to measure the amount of raw fiber required to produce the end use item concerned.

Silk, linen, jute, sisal, etc., are used in many of the products covered by the survey. But no poundage data for these fibers are included in the tables on pages 192-198. For comparison purposes, however, the total imports of these fibers are presented in the lower table on page 191. Further reference to these fibers is made in the General Notes on page 193.

WASTE FIBER COVERAGE IN THE SURVEY

Textile fiber waste is handled three different ways in the survey. First, end uses which employ waste fiber, either wholly or in part without preliminary processing, are not included, e.g., furniture stuffing, mattress felts, punched or needled felts for carpet & rug underlays, pressed wool felts, some nonwoven fabrics, etc.

Second, for certain end uses which utilize both new fiber and the fiber derived from processed waste, the poundages shown have been calculated so as to exclude the waste component insofar as possible, e.g., the cotton waste in Towels & Toweling (Item 48), Twine (Item 73), etc.

Conversely and third, waste which has been processed into usable spinnable fiber is included in the poundages shown for Blankets (Item 46), Carpets & Rugs (Item 50), Drapery & Upholstery (Item 52) and a number of other applications. In these products, fiber derived from waste by preliminary processing, and especially the man-made fiber poundages, is a significant and measured part of the total end use.

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Textile Organon

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An arrangement of authentic market data, especially important to the United States Man Made Fiber industry, published monthly in the interest of good business.

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OUTLINE AND COVERAGE OF THE SURVEY

The tabulations on pages 192-198 show the poundages of the itemized textile fibers consumed in the production of the named end use products in United States establishments. Because they are not manufactured in domestic mills, the substantial imports of finished products, such as apparel, blankets, tablecloths, rugs, etc., are not included in the survey poundages presented herewith.

The method employed for estimating the end uses of man made fibers differs from that used for the natural fibers. For the man made fibers, the data are based on producers' domestic shipments plus imports of fiber, yarn and semimanufactured products.

In the case of cotton, the data of the National Cotton Council were used extensively. For wool, government data plus estimates from other trade sources were employed.

END USE VS. AVAILABLE SUPPLY

A comparison of mill consumption plus semimanufactured imports (Available Supply) with end use consumption is presented in the center table on page 191. While more specific reasons which affect the correlation between these series are described in the following sections, some general remarks are presented here.

Cotton. End Use is lower than Available for most years; the same situation obtains in the National Cotton Council's survey data. Two reasons for this are advanced by the Council: a) many small uses are not included in the survey and b) estimates of materials consumed are based on "typical" cotton yarns and fabrics, not on the actual weights of every type of yarn and fabric consumed in the various end uses.

Timing and inventory changes also play a significant role. For example, some raw cotton correctly reported as "consumed" by the Census Bureau in the calendar year 1979 was not actually incorporated into end products until 1980 because of the time lags and inventory fluctuations involved in moving from raw fiber in the bale to a finished garment or other textile product. Similarly, an indeterminate amount of cotton consumed in 1980 was not embodied in finished products until 1981.

As noted, the cotton series herewith are mainly those of the National Cotton Council as presented in its annual survey "Cotton Counts Its Customers" (1981 and earlier editions).

Wool. Blends of wool with other fibers are common in many end uses, but little information is available on the fiber composition of these blends. Thus relatively reliable measures are available mainly on the wool poundages used in Home Furnishings (blankets and carpets) and such Apparel items as Retail Piece Goods

and Craft Yarns.

These poundages were deducted from the Available Supply in the page 191 table and the residual poundages were then attributed to Apparel. Usage in individual apparel items for the years 1974-1980 was calculated by correlating the data of Census reports MA-23A and MQ-22T on Apparel and Broad Woven Goods respectively.

Man-Made Fibers. As will be seen, there is relatively good correlation between End Use and Available.

The fluctuations of producers' domestic shipments, as well as imports, from year to year are significant. In years when there is a large increase in domestic shipments plus imports of fiber (Available Supply), it is probable that some of the increase went into mill and manufacturers' inventories rather than directly into the end uses. Both warehouse inventories of yarn and staple and goods in process inventories would be involved. For example, it is likely that some of the large increase in the Available Supply between 1976 and 1977 was absorbed in inventories at various stages of the production process. In a period when Available Supply falls sharply (1973-1974 and 1974-1975, for instance) the movement is reversed. In a period of slower activity, mills and manufacturers reduce their warehouse inventories and work-in-process to reflect the lower level of activity.

UNIT PRODUCTION VS. FIBER CONSUMED

The survey attempts to show the poundage of raw fiber which had to be put into process in order to manufacture the end products itemized. Thus no direct comparison can be, or should be, made between the poundages of the fibers consumed, as recorded here, and the finished or "shelf" weight of those end products by fiber.

Several reasons for this disparity are discussed on pages 167 and 170 of the November 1976 *Organon* issue.

THE UTILITY POUNDAGE CONCEPT

The expression "Utility Poundage" was originated by the Textile Economics Bureau several years ago.

The principle involved is that textile fiber consumption, in terms of the consumers' use, cannot be accurately measured in absolute pounds when one fiber is compared with another. Among the variables taken into account are the different losses involved in spinning and processing the fibers and the differences in typical fabric weights of products made of the various fibers, as described. Because of these variables, in most cases a pound of man made fiber replaces more than a pound of natural fiber. However, no means of quantifying this difference in any reliable manner is available. Therefore, all figures in this end use study are on an **actual** rather than a Utility Poundage basis.

TEXTILE MILL CONSUMPTION IN THE MAIN END USES FOR SEVEN EEC COUNTRIES^a

MILLION POUNDS & Percent

END USE & YEAR	MAN-MADE FIBER DETAIL (EXCEPT GLASS FIBER)											
	GRAND TOTAL			COTTON			WOOL			MAN-M' DE FIBERS ^d		
	LBS	% ^b	% ^c	LBS	% ^b	% ^c	LBS	% ^b	% ^c	LBS	% ^b	% ^c
TOTAL END USE CONSUMPTION												
1974	7614	100	100	2201	28.9	100	852	11.2	100	4561	59.9	100
1975	7052	100	100	1987	28.2	100	848	12.1	100	4197	59.7	100
1976	7007	100	100	2285	28.6	100	940	11.8	100	4766	59.6	100
1977	7524	100	100	2047	27.2	100	915	12.2	100	4562	60.6	100
1978	7849	100	100	2045	26.1	100	918	11.7	100	4876	62.2	100
1979	8170	100	100	2091	25.6	100	960	11.7	100	5128	62.7	100
APPAREL												
1974	4809	100	50.0	951	25.0	43.2	588	15.4	69.0	2270	59.6	49.8
1975	4588	100	51.0	862	24.0	43.4	586	16.6	70.3	2150	59.4	50.7
1976	4181	100	52.3	1048	25.1	45.8	679	16.2	71.8	2454	58.7	51.5
1977	4811	100	50.5	950	24.6	45.7	644	17.0	70.4	2221	58.4	48.7
1978	4970	100	50.6	955	23.5	45.6	641	16.1	69.8	2396	60.4	49.1
1979	4202	100	51.4	985	23.4	47.0	670	16.1	70.4	2543	60.5	49.6
CARPETS												
1974	808	100	11.8	24	2.7	1.1	169	18.8	19.8	705	78.5	15.4
1975	865	100	12.3	20	3.0	1.3	166	19.2	19.6	671	77.8	16.0
1976	930	100	11.6	22	2.4	1.0	165	17.7	17.4	743	79.9	15.7
1977	935	100	12.4	19	2.0	0.9	164	17.6	17.9	752	80.4	16.5
1978	994	100	12.7	19	1.9	0.9	170	17.1	18.5	805	81.0	16.5
1979	1008	100	12.3	15	1.5	0.7	177	17.7	18.5	811	80.8	15.8
OTHER HOME FURNISHINGS												
1974	1705	100	22.4	787	46.2	35.7	68	4.0	8.0	848	49.8	18.6
1975	1499	100	21.3	701	46.8	35.3	60	4.0	7.1	738	49.2	17.6
1976	1705	100	21.3	701	40.4	34.6	74	4.3	7.7	841	49.3	17.6
1977	1642	100	21.8	721	43.9	35.2	75	4.6	8.2	846	51.5	18.5
1978	1674	100	21.4	735	43.8	35.9	77	4.6	8.4	864	51.6	17.7
1979	1712	100	20.0	745	43.4	35.5	78	4.6	8.1	891	52.0	17.4
TIRES												
1974	200	100	3.4	15	5.8	0.7				245	94.2	5.4
1975	215	100	3.0	13	6.1	0.6				200	93.9	4.8
1976	231	100	2.9	11	4.8	0.5				220	95.2	4.6
1977	222	100	3.0	7	3.2	0.4				215	96.8	4.7
1978	200	100	2.5	6	3.0	0.3				194	97.0	4.0
1979	185	100	2.2	5	2.7	0.3				180	97.3	3.5
OTHER INDUSTRIAL USES												
1974	944	100	12.4	424	44.9	19.3	27	2.9	3.2	493	52.2	10.8
1975	869	100	12.4	385	44.3	19.4	26	3.0	3.0	458	52.7	10.9
1976	950	100	11.9	413	43.5	18.1	29	3.0	3.1	508	53.5	10.6
1977	924	100	12.3	364	39.4	17.8	32	3.5	3.5	528	57.1	11.6
1978	1001	100	12.8	354	35.4	17.3	30	3.0	3.3	617	61.6	12.7
1979	1077	100	13.2	345	32.0	16.5	29	2.7	3.0	703	65.3	13.7

SOURCE: Comité International de la Rayonne et des Fibres Synthétiques, Paris, France

^a Belgium, France, Italy, Luxembourg, Netherlands, West Germany and the United Kingdom.^b The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand

Total columns.

^c The percentages in these columns show the share of each fiber in the various end uses. They add vertically to the 100% shown under Total End Use Consumption columns.^d Excludes olefin film fiber and textile glass fiber.^e Includes acetate tow for cigarette filters.

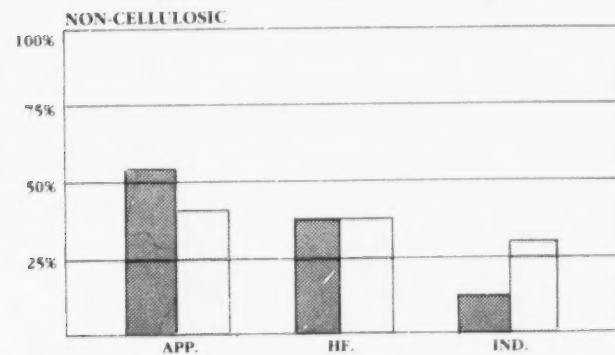
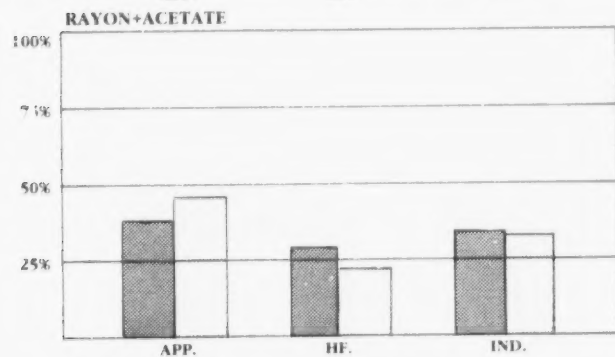
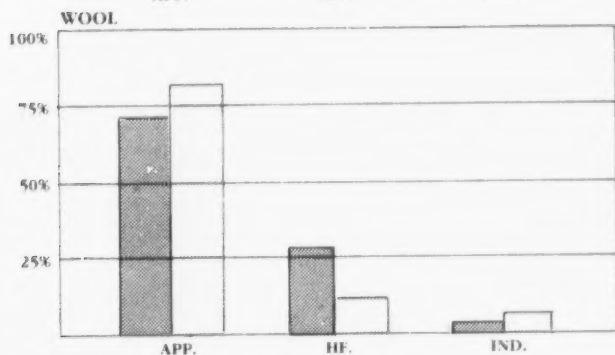
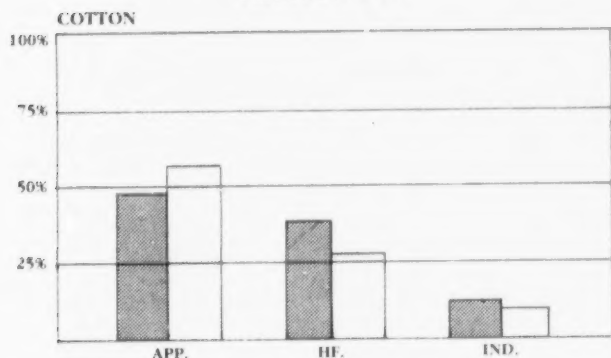
LIMITATIONS OF THE SURVEY RESULTS

The statistical results of an end use survey can be only approximations at best. But when the data are viewed as one fiber relative to another, and not as absolute values, then they may be regarded as measuring the long term trend results of competition between the fibers.

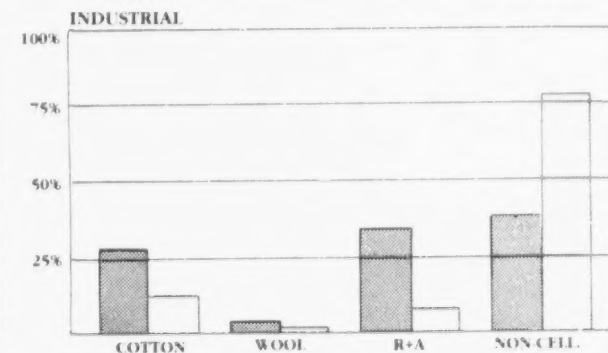
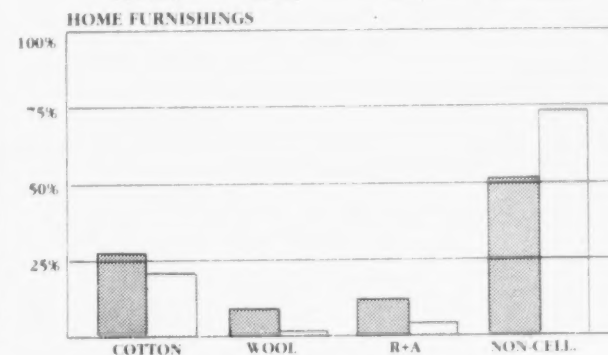
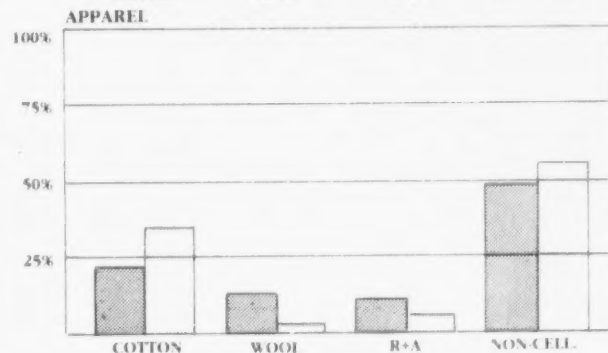
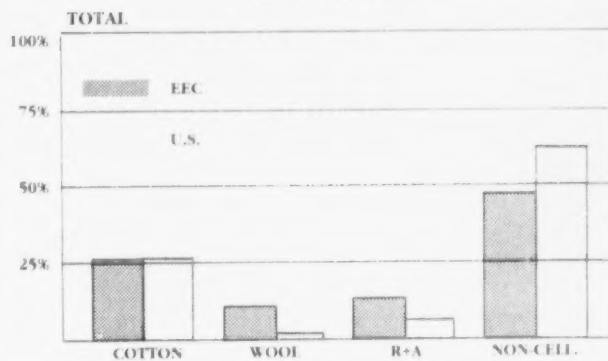
The data are given in millions of pounds and include one decimal place to show hundred thousand pounds. This device is employed not to show great accuracy, but rather to take into account some small poundages of fibers in such end uses as Apparel Lace (Item 43) and still allow the compilation to add arithmetically.

COMPARISON OF EEC VS. US END USE DATA

FIBER BY END USE



END USE BY FIBER



U.S. END USE CONSUMPTION SUMMARY

MILLION POUNDS & Percent

END USE & YEAR	GRAND TOTAL			COTTON			WOOL			MAN-MADE FIBERS			MAN-MADE FIBER DETAIL									
													RAYON-ACETATE				OTHER (NON-CELL-TEXT GLASS)					
													TOTAL			YARN LBS	STAPLE LBS	TOTAL			YARN LBS	STAPLE LBS
	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	% ^a	% ^b													
TOTAL END USE CONSUMPTION																						
1974	11,450	100	100	5,440	30.4	100	149	1.3	100	7,755	68.3	100	1,119	9.8	100	490	6.29	6,650	58.5	100	490	27.29
1975	10,816	100	100	5,196	29.6	100	156	1.4	100	7,464	69.0	100	823	7.6	100	589	4.54	6,641	61.4	100	579	28.42
1976	11,776	100	100	5,692	29.6	100	174	1.5	100	8,110	68.9	100	872	7.4	100	548	5.24	7,248	61.5	100	598	34.50
1977	12,511	100	100	5,989	27.1	100	176	1.4	100	8,946	71.5	100	885	7.1	100	458	5.25	8,063	64.4	100	452	57.51
1978	12,745	100	100	5,238	25.4	100	187	1.5	100	9,320	73.1	100	890	7.0	100	473	5.17	8,450	66.1	100	4584	3846
1979	12,927	100	100	5,248	25.1	100	175	1.4	100	9,506	73.5	100	859	6.5	100	464	4.75	8,667	67.0	100	4740	3927
1980	12,070	100	100	5,119	25.8	100	170	1.4	100	8,781	72.8	100	752	6.3	100	432	4.20	8,029	66.5	100	4573	4656
APPAREL																						
1974	4672	100	41.2	1678	35.9	48.7	91	2.0	61.1	2903	62.1	37.4	422	9.0	37.7	282	140	2481	53.1	37.4	1591	1090
1975	4655	100	43.0	1563	33.6	48.9	105	2.2	67.3	2987	64.2	40.0	355	7.2	40.4	257	76	2654	57.0	40.0	1489	1165
1976	4820	100	40.9	1736	36.6	49.7	127	2.6	73.0	2957	61.4	36.5	288	6.0	33.0	216	72	2669	55.4	36.9	1509	1500
1977	5106	100	40.8	1735	34.0	51.2	132	2.6	75.0	3249	63.4	36.2	404	5.9	34.4	219	85	2935	57.5	36.4	1456	1479
1978	4977	100	39.0	1685	33.8	52.0	139	2.8	74.3	3155	63.4	33.9	407	6.2	34.5	228	70	2848	57.2	33.8	1444	1404
1979	4789	100	36.6	1636	34.5	50.4	132	2.8	76.3	2971	62.7	31.3	441	7.2	40.7	245	96	2630	55.5	30.3	1559	1271
1980	4707	100	39.0	1654	34.7	52.4	126	2.7	74.1	2947	62.6	33.6	505	6.4	40.3	225	78	2644	56.2	32.9	1246	1598
HOME FURNISHINGS																						
1974	3353	100	29.5	965	28.8	28.0	33	1.0	22.1	2355	70.2	30.4	255	7.6	22.8	69	180	2100	62.6	31.6	916	1184
1975	3238	100	29.9	907	28.1	28.4	32	1.0	20.5	2294	70.9	30.7	176	5.4	21.4	47	129	2118	65.5	31.9	899	1209
1976	3526	100	29.9	920	26.1	26.3	35	0.9	19.0	2573	73.0	31.7	216	6.1	24.8	45	171	2357	66.9	32.6	921	1456
1977	3842	100	30.7	905	23.6	26.7	32	0.8	18.2	2905	75.6	32.5	212	5.5	24.0	54	158	2693	70.1	33.4	1072	1621
1978	3906	100	31.4	863	21.6	26.6	35	0.9	18.7	3008	77.5	33.2	239	6.0	26.9	57	182	2859	71.5	33.9	1160	1699
1979	4093	100	31.7	840	20.7	26.3	27	0.7	15.6	3217	78.6	33.8	194	4.7	23.1	48	146	3023	73.9	34.9	1244	1779
1980	3660	100	30.5	806	22.0	25.8	26	0.7	15.3	2828	77.3	32.2	169	4.6	22.5	47	122	2659	72.7	33.1	1189	1470
INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS																						
1974	2833	100	25.0	548	19.3	15.9	10	0.4	6.7	2275	80.3	29.3	487	15.7	34.6	118	269	1888	66.6	28.5	1528	560
1975	2486	100	23.0	491	19.8	15.4	6	0.2	3.9	1989	80.0	26.7	264	10.6	32.1	62	202	1725	69.4	26.0	1333	392
1976	2954	100	25.1	569	19.3	16.3	7	0.2	4.0	2378	80.5	29.3	315	10.7	36.1	61	254	2063	69.8	28.5	1592	471
1977	3145	100	25.2	528	16.8	15.6	8	0.3	4.5	2609	82.9	29.2	316	10.0	35.8	62	254	2293	72.0	28.4	1743	550
1978	3323	100	26.1	472	14.2	14.6	9	0.3	4.8	2842	85.5	30.5	301	9.0	33.8	66	245	2541	76.5	30.1	1904	637
1979	3475	100	26.9	462	13.3	14.2	8	0.2	4.6	3005	86.5	31.6	271	7.8	32.3	50	221	2734	78.7	31.6	2003	725
1980	3085	100	25.6	420	13.6	13.5	11	0.4	6.5	2654	86.0	30.2	249	8.1	33.1	40	209	2405	77.9	30.0	1797	608
EXPORTS OF DOMESTIC PRODUCTS																						
1974	492	100	4.3	255	51.8	7.4	15	3.1	10.1	222	45.1	2.9	55	11.2	4.9	21	34	167	33.9	2.5	72	95
1975	442	100	4.1	235	53.2	7.3	13	2.9	8.3	194	43.9	2.6	50	11.3	6.1	23	27	144	32.6	2.1	68	76
1976	476	100	4.1	267	56.1	7.7	7	1.5	4.0	202	42.4	2.5	53	11.1	6.1	26	27	149	31.3	2.0	66	83
1977	418	100	3.3	221	52.0	6.5	4	0.9	2.3	193	46.2	2.1	51	12.2	5.8	23	28	142	34.0	1.8	61	81
1978	449	100	3.5	220	49.0	6.8	4	0.9	2.2	225	50.1	2.4	45	9.6	4.8	22	21	182	40.5	2.2	76	106
1979	620	100	4.8	301	48.5	9.3	6	1.0	3.5	313	50.5	3.3	33	8.3	3.9	21	12	280	45.2	3.2	128	152
1980	618	100	5.1	259	41.9	8.3	7	1.1	4.1	352	57.0	4.0	31	5.0	4.1	20	11	321	52.0	4.0	141	180

a. The percentages in these columns show the share of each fiber in the specified end use each year. They add horizontally to the 100% shown in each of the Grand Total columns.

b. The percentages in these columns show the usage of each type of fiber by its major end use categories. They add vertically to the 100% shown under Total End Use Consumption.

EEC AND U.S. END USE DATA COMPARED

The charts on page 189 show a comparison (on a percentage basis) of EEC end use data (courtesy of CIRFS) with that of the U.S. for 1979. The EEC data include acetate tow for cigarette filtration and exclude textile glass fiber, whereas the U.S. data include textile glass fiber but exclude acetate tow for cigarette filtration. U.S. exports of yarn and fabrics have been included with apparel here.

Overall, the EEC consumes the same percentage of cotton, a greater percentage of wool and cellulosic

fibers, and a smaller percentage of non cellulosic fibers than the U.S.

By end use, non cellulosic fibers have a greater share of each end use segment in the U.S. than in the EEC. The EEC uses proportionately more cotton, wool and cellulosic fibers in each end use than the U.S. except for cotton going into apparel, where the situation is reversed.

By fiber type, both the U.S. and the EEC show apparel as the largest market. The EEC shows a more even distribution of cellulosic fibers by end use whereas the U.S. shows a more even distribution of non cellulosic fibers

(Continued on page 198)

MILL CONSUMPTION+SEMI-MFRD. IMPORTS MILLION POUNDS

YEAR	MAN MADE FIBERS										COTTON			WOOL					MILL CONSUMPTION+IMPORTS AVAILABLE
	MILL CONSUMPTION ^a						IM PORTS ^c	TOTAL	MILL CONSUM ^a	IM PORTS ^c	TOTAL	MILL CONSUM ^a	REPRODUCED ^d	COTTON SYSTEM ^d	IM PORTS ^c	TOTAL			
	RAYON+ACETATE			NON-CELLULOSIC+TEXT. GLASS															
	YARN	STAPLE ^b	TOTAL	YARN	STAPLE ^b	TOTAL													
1974	682.0	625.0	1,307.0	5,805.2	2,728.2	8,533.4	80.8	7,787.8	5,066.1	280.3	5,346.4	510.0	15.0	4.0	1.2	151.4	1,152.5		
1975	577.8	424.2	1,002.0	5,802.1	2,812.4	8,614.5	80.0	7,702.1	5,008.7	258.1	5,266.8	532.0	14.8	3.0	1.2	140.0	1,097.5		
1976	550.0	515.0	1,065.0	5,888.8	5,408.8	11,297.6	108.4	8,135.0	5,889.0	331.4	6,220.4	475.0	14.8	3.0	1.2	140.0	1,210.0		
1977	551.0	517.2	1,068.2	5,845.2	5,074.1	10,919.3	127.0	10,115.1	5,109.8	258.1	5,367.9	455.0	10.7	3.0	1.2	140.0	1,210.0		
1978	505.5	510.0	1,015.5	5,880.8	5,707.2	11,588.0	100.5	10,497.0	5,040.4	446.7	5,487.1	431.0	10.8	3.0	1.2	140.0	1,155.5		
1979	450.7	474.5	925.2	5,770.2	5,872.0	11,642.2	110.0	11,502.8	5,060.9	240.0	5,300.9	433.0	10.8	2.5	1.2	140.0	1,155.5		
1980	525.0	415.0	940.0	5,420.0	5,017.0	10,437.0	114.0	8,859.0	5,000.0	277.0	5,277.0	443.0	10.8	3.0	1.2	140.0	1,155.5		

^a Mill consumption is taken from page 90 of the March 1981 *Organon* issue plus subsequent revisions.

^b Man Made staple includes waste.

^c Imports are taken from page 57 of the March issue and comprise semi-manufactured goods; see the footnote there.

^d These poundages of processed and finished goods as well as wool consumed in the cotton spinning system are first included in the Mill consumption section of wool (see page 86 of the February 1979 *Organon*). However, they are considered here as part of the available supply. These poundages are in the table below.

END USE VS. AVAILABLE SUPPLY MILLION POUNDS & PERCENT

FIBERS	1974			1975			1976			1977			1978			1979			1980		
	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c	AVAIL. ABLE ^a	END. USE ^b	% ^c
COTTON & WOOL	6587	5440	82.6	5507	5195	94.3	5740	5405	94.2	5428	5380	99.1	5371	5248	97.7	5410	5248	97.0	5442	5120	94.1
TOTAL COTTON & WOOL	151	140	92.7	100	97	97.0	182	174	95.6	180	177	98.3	105	107	101.9	180	174	96.7	174	168	96.6
MAN MADE FIBERS	5738	5595	97.7	5467	5552	101.7	5022	5667	112.8	5608	5566	99.3	5564	5425	97.5	5496	5421	98.8	5516	5288	95.9
RAYON YARN ^d	400	400	100.0	401	400	99.8	450	448	99.6	460	450	97.8	474	474	100.0	504	504	100.0	552	552	100.0
RAYON STAPLE ^d	640	620	96.9	455	455	100.0	528	528	100.0	540	525	97.2	542	547	101.1	580	575	99.1	627	621	98.9
NON-CELL. YARN ^d	5276	5276	100.0	5066	5265	103.8	5240	5210	100.8	5600	5560	99.3	5708	5577	97.9	5805	5805	100.0	5990	5990	100.0
NON-CELL. STAPLE ^d	2761	2727	98.8	2842	2842	100.0	5551	5455	98.3	5744	5740	100.0	5864	5860	100.0	5928	5928	100.0	6000	5975	99.6
TOTAL MAN MADE FIBER ABOVE	7157	7122	99.5	6972	6929	99.4	7478	7453	99.7	8224	8154	99.1	8510	8453	99.3	8640	8585	99.4	8022	7907	98.6
TEXTILE GLASS FIBER	651	651	100.0	554	554	100.0	678	678	100.0	701	701	100.0	867	867	100.0	924	924	100.0	874	874	100.0
TOTAL FIBERS ABOVE	11526	11348	98.4	10973	10815	98.5	12078	11778	97.5	12623	12511	99.1	12961	12745	98.4	13058	12926	99.1	12412	12069	97.2

^a Available means mill consumption plus the imports of semi-manufactured products from the table above.

^b End Use from the upper section of the page 190 table.

^c End Use as a percentage of Available.

^d Yarn includes manufactured.

^e Staple includes raw, fiberfill and waste.

IMPORTS FOR CONSUMPTION - MILLION POUNDS

YEAR	SILK				LINEN				JUTE				SISAL & OTHERS				TOTAL IMPORTS (TO THE LEFT)
	RAW MATL	SEMI MFRD	FIN	ISHED	RAW MATL	SEMI MFRD	FIN	ISHED	RAW MATL	SEMI MFRD	FIN	ISHED	RAW MATL	SEMI MFRD	FIN	ISHED	
1974	2.0	1.0	0.0	4.2	2.2	0.8	5.5	5.5	0.2	708.4	0.7	870.8	155.0	8.0	581.8	420.4	1447.5
1975	1.0	0.0	0.7	2.0	0.8	0.5	28.4	5.5	0.0	688.8	20.8	890.5	84.7	8.4	218.0	512.0	1000.0
1976	2.8	1.4	1.8	5.8	0.6	0.8	54.5	40.0	0.2	585.5	0.0	100.0	102.2	7.0	271.5	581.0	1157.0
1977	1.0	2.0	1.8	5.4	0.6	0.4	55.2	50.0	20.7	507.0	20.2	653.8	115.0	8.7	255.0	474.2	1071.4
1978	2.0	5.0	5.5	9.1	1.0	0.2	50.2	42.4	57.0	688.0	58.2	100.4	127.8	8.4	255.0	570.2	1080.0
1979	1.5	2.8	4.0	8.2	0.0	0.1	50.4	50.4	0.5	688.8	15.8	850.8	117.0	4.7	404.6	420.5	1021.0
1980	1.0	8.1	4.0	8.5	0.0	2.0	27.7	31.2	20.0	680.4	15.0	814.0	100.0	9.6	242.2	552.4	807.0

SOURCE: U.S. Census Bureau

Because these fibers are not grown in the United States (flax production is nominal), imports are taken as the total available supply.

SILK. Raw material means raw silk plus silk waste & noils. **Semi-manufactured** means spun & thrown silk yarns and silk fabrics. **Finished goods** are mainly scarves, handkerchiefs, blouses and ties.

LINEN. Raw material includes buckled and unbuckled flax, pines, raw & straw. **Semi-manufactured** includes linen yarn, sliver & roving. **Finished goods** are mainly fabrics: handkerchiefs, towelings, napery & dresses.

JUTE. Raw material includes unmanufactured jute and jute burs. **Semi-manufactured** means yarn & jute bag, new & waste bagging and burlap in the piece. **Finished goods** are mainly cordage, bags and webbing.

SISAL & OTHERS includes all of the *hard or leaf fibers* (e.g., abaca or manilla hemp, am, etc.) frequent (silk or lampas) sisal, etc. **Imported** into the United States plus the *soft or bast fibers* (e.g., flax, ramie, sunn, etc.) except flax or ramie and sunn, which are fabricated separately here. **Semi-manufactured** is chiefly cordage & roving. **Finished goods** are mainly cordage and twine.

APPAREL^a

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
TOTAL APPAREL	1974	4671.5	2902.6	281.9	139.8	1391.2	1089.7	1677.6	91.3
	1975	4655.1	2987.3	257.5	75.9	1488.6	1165.3	1562.7	105.1
	1976	4819.5	2956.7	216.0	72.1	1308.3	1360.3	1736.0	126.8
	1977	5106.0	3238.8	219.1	84.4	1456.1	1479.2	1734.7	132.5
	1978	4976.6	3154.8	227.6	79.0	1443.8	1404.4	1683.1	138.7
	1979	4738.6	2970.7	244.8	96.4	1358.5	1271.0	1635.9	132.0
	1980	4706.5	2947.1	225.2	78.2	1245.8	1397.9	1634.0	125.4
40. SUEEER	1974	45.8	45.8	0.2		45.6			
HOSIERY & W. *	1975	52.0	52.0			52.0			
	1976	56.2	56.2			56.2			
	1977	54.7	54.7			54.7			
	1978	60.0	60.0			60.0			
	1979	66.1	66.1			66.1			
	1980	67.8	67.8			67.8			
10. 41. ANKLETS & SOCKS	1974	120.7	85.7		0.1	45.0	42.6	32.5	2.7
1975	131.1	96.2		0.1	54.1	45.0	31.9	3.0	
1976	140.9	99.7		0.2	48.6	50.9	39.2	2.0	
1977	165.0	129.2		0.4	55.9	72.0	34.7	2.0	
1978	178.5	146.3		0.5	56.0	80.0	40.2	2.0	
1979	167.1	131.4		0.5	52.7	78.2	33.2	2.5	
1980	188.2	151.0		0.5	56.0	94.5	33.0	2.4	
8. 20. SWEATERS & RELATED ACCESSORIES	1974	117.8	99.9			9.9	85.0	7.7	15.2
1975	104.5	87.1			9.1	78.0	7.1	10.1	
1976	117.0	101.7			7.7	94.0	6.9	9.0	
1977	140.0	121.5		0.7	16.8	104.0	7.6	11.5	
1978	116.7	97.5		0.7	9.8	87.0	7.5	11.7	
1979	108.7	87.7		0.7	10.0	77.0	6.7	14.3	
1980	124.0	101.3		0.1	12.2	89.0	9.0	13.6	
5. CRAFT & HANDWORK YARNS *	1974	82.8	69.4		3.7	65.7	9.7	3.7	
1975	110.3	98.0		6.5	91.7	20.1	2.2		
1976	91.7	84.5		5.4	81.1	5.0			
1977	111.0	105.4		5.5	102.1	4.2			
1978	115.1	107.3		1.7	105.6	3.8			
1979	118.0	110.7		0.9	109.8	3.7			
1980	116.0	109.3		0.2	109.1	3.5			
10. 18. UNDERWEAR & NIGHTWEAR	1974	255.0	44.0		1.0	1.7	41.5	210.4	0.6
1975	250.2	63.6			4.0	59.6		185.9	0.7
1976	257.0	50.2			2.0	57.2		196.9	0.9
1977	251.7	66.5			6.5	60.2		184.2	1.0
1978	254.7	74.0		0.5	14.6	59.7		179.1	1.0
1979	257.9	86.3		0.8	21.3	64.2		170.6	1.0
1980	267.4	104.0		0.8	26.2	77.0		162.4	1.0
85. 91. UNDERWEAR & NIGHTWEAR BRAS AND TOUN	1974	245.8	188.9		5.4	110.6	111.5	22.7	5.4
1975	264.0	151.3		5.1	109.5	10.2	51.9	0.8	
1976	199.3	146.7		25.0	15.0	118.0	51.6	1.0	
1977	242.7	185.9		19.2	2.2	148.7	15.8	55.8	1.0
1978	258.7	190.3		14.7	3.2	141.7	30.7	67.4	1.0
1979	250.3	184.1		18.7	2.1	137.5	25.8	65.2	1.0
1980	254.5	169.0		19.7	0.0	117.0	31.7	64.5	1.0
10. 41. ROBES & DOUNGE WEAR	1974	93.8	71.1		50.8	31.3	5.0	21.7	1.0
1975	83.0	61.9		32.4	26.6	2.9	20.2	1.5	
1976	99.1	76.5		39.8	33.6	3.1	20.0	2.0	
1977	115.9	91.2		56.3	30.4	4.5	20.2	2.5	
1978	133.0	111.1		70.3	33.7	7.1	19.9	2.0	
1979	131.2	110.8		60.5	36.2	15.2	17.9	2.5	
1980	146.0	126.3		65.0	38.0	24.9	17.5	2.4	

END USE & YEAR		TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
			TOTAL	RAYON-ACETATE		OTHER				
				YARN	STAPLE	YARN	STAPLE			
5a HIGH PILE FABRICS*	1974	82.5	82.5			4.9	78.6			
	1975	106.5	106.5			4.1	103.4	15	15	
	1976	110.0	110.0			3.1	106.8	11.6	11.6	
	1977	125.0	125.0			0.1	6.8	118.1	5.0	
	1978	115.7	115.7				10.5	105.2	10.0	
	1979	113.0	103.0	0	0.4	13.5	89.1			
1980	100.4	100.4		0.1	14.5	86.0				
5b FABRICS FOR LINING*	1974	220.4	137.4	170.3	20.5	26.1	20.5	80.5	2.9	
	1975	210.4	135.2	177.9	11.4	22.4	24.5	72.4	2.8	
	1976	225.5	145.1	189.5	7.2	27.8	20.6	75.2	3.2	
	1977	226.8	152.5	93.4	7.2	25.3	26.6	70.8	3.5	
	1978	218.7	150.1	92.3	16.6	23.8	27.4	65.6	3.0	
	1979	208.4	146.4	86.8	8.7	24.0	26.9	50.5	2.5	
1980	181.5	124.6	78.0	7.5	17.0	21.1	55.5	2.4		
45 APPAREL LACE (W)*	1974	6.2	4.7	2.5		2.2		1.5		
	1975	7.9	6.4	5.0		1.4		1.5		
	1976	6.8	5.4	3.5		1.8		1.5		
	1977	8.0	6.5	3.5		3.0		1.5		
	1978	10.0	8.5	3.7		4.8		1.5		
	1979	6.8	5.4	1.7		3.6		1.5		
1980	6.7	5.2			5.2		1.5			
55 RETAIL PRICE GOODS*	1974	478.5	335.0	5.0	5.0	250.0	75.0	147.5	6.0	
	1975	479.0	333.0	4.6	4.0	250.0	75.0	140.6	6.0	
	1976	477.7	340.0	7.5	7.5	225.0	100.0	132.2	5.5	
	1977	459.1	340.0	6.0	6.0	199.0	119.0	124.1	5.0	
	1978	405.5	291.0	5.0	5.0	161.0	120.0	110.5	4.0	
	1979	343.5	250.0	4.0	4.0	121.0	121.0	89.5	3.0	
1980	310.0	240.0	3.0	3.0	102.0	122.0	77.0	3.0		
56a NARROW FABRICS*	1974	61.2	29.7	15.0	5.9	7.0	18.1	41.5		
	1975	56.1	21.0	5.1	4.1	9.2	2.6	29.1		
	1976	48.1	22.5	7.7	0.6	11.4	2.8	25.6		
	1977	42.9	23.3	5.7	0.6	13.4	3.6	19.6		
	1978	54.9	29.9	5.6	0.2	16.0	8.1	25.0		
	1979	48.4	25.4	5.1	0.4	13.1	6.8	23.0		
1980	52.8	29.6	7.5	0.3	17.2	3.0	23.2			
TOPWEIGHT FABRICS*	1974	918.9	615.0	87.0	80.0	178.0	270.0	302.4	15	
	1975	912.5	650.0	92.0	56.0	214.0	288.0	281.0	14	
	1976	907.0	569.0	58.0	35.0	157.0	339.0	346.0	2.0	
	1977	982.0	629.0	25.0	43.0	206.0	355.0	351.0	2.0	
	1978	1041.5	689.0	24.0	42.0	263.0	360.0	349.8	2.5	
	1979	1037.6	686.0	42.0	49.0	265.0	336.0	349.1	2.5	
1980	980.1	611.0	34.0	42.0	200.0	335.0	366.7	2.4		
BOTTOMWEIGHT FABRICS*	1974	186.2	1093.0	10.0	24.0	680.0	386.0	711.6	57.5	
	1975	1887.5	1140.0	10.0	12.0	733.0	485.0	671.0	76.5	
	1976	2018.0	1135.0	7.0	18.0	623.0	490.0	784.0	99.0	
	1977	2097.0	1212.0	10.0	18.0	100.0	495.0	783.0	102.0	
	1978	1933.8	1088.0	12.0	19.0	647.0	410.0	734.5	100.5	
	1979	1798.4	966.0	26.0	28.0	502.0	520.0	734.9	97.5	
1980	1861.2	1012.0	20.0	22.0	57.0	60.0	750.0	93.2		
OTHER APPAREL & ACCESSORIES (MW)*	1974	82.0	5.5		1.0	1.0	3.5	76.5		
	1975	64.7	4.5		1.5	0.6	2.4	60.0		
	1976	66.0	5.3		1.6	0.7	3.0	61.3		
SHIRTINGS	1977	89.1	6.1		2.9	0.8	2.4	78.0		
	1978	85.1	4.6		0	1.0	3.6	78.5		
	1979	92.8	11.5		0	2.5	9.0	81.3		
	1980	69.4	5.7		0.7	2.0	5.0	65.7		

NOTES FOR APPAREL ITEMS OPPOSITE

a. For all lettered and general footnotes to this table, see notes on page 195 below.

10. **SHEER HOSIERY (W)** includes full-fashioned & seamless full-length, pantyhose, knee-highs and surgical hosiery. Bodywear is in Items 45-49.

19-41. **ANKLETS & SOCKS (MW)** includes men's and women's foot socks, anklets and non-sheer knee-high hose. Also includes men's midcalf and surgical hose.

8-29. **SWEATERS (MW)** includes knitted sweater shirts, coats, jackets and related accessories. Also note Item 57.

57. **CRAFT & HANDWORK YARNS** includes yarn and thread for crocheting, darning, embroidery, mending, hand knitting, etc. The item does not include sewing thread (Item 72). Olefin yarn for macramé is in Miscellaneous Industrial.

16-18. **UNDERWEAR & NIGHTWEAR (M)** includes undershirts, shorts & briefs, sleep coats, pajamas, nightshirts, thermal underwear, etc.

45-49. **UNDERWEAR, NIGHTWEAR, BRAS AND FOUNDATIONS**. The underwear and nightwear component includes full and half slips, panties, pettipants, camisoles, vests, briefs and thermal underwear as well as nightgowns, sleep & lounging pajamas, sleep coats, peignoir & robe sets with nightgowns or pajamas, negligees and bedjackets. Includes bodywear and all children's and infants underwear & nightwear. **Excludes** (1) trim, elastic webbing, apparel lace, braid or narrow fabric used in these products.

The bras and foundations component includes bandeaux, corsets & girdles, combination & one-piece garments, garter belts, two-way stretch and surgical & maternity foundation garments.

10-31. **ROBES & LOUNGEWEAR (MW)** includes men's & boys' beach & bathrobes, dressing gowns and smoking jackets, and women's beach & bathrobes and housecoats.

54a. **HIGH PILE FABRICS** includes all applications (Apparel, Home Furnishings and Industrial). Apparel shell fabrics and "surface lining" garment items are included.

54b. **FABRICS FOR LINING** includes all man-made fiber types except high pile fabrics (Item 54a), lining type fabrics sold as retail piece goods (see Item 55) and the lining components of shoes & slippers and luggage and handbags (Miscellaneous Other (Consumer Type)). The apparel lining component of this series includes main linings, interlinings, zip-in linings (except pile), linings for pockets and waistbands as well as the acetate and nylon tricot used for laminating. Cotton drapery linings are not included here but are in Item 52. Also not included are interlinings of haincloth, urethane and nonwoven fabrics.

44. **APPAREL LACE** includes nets and veilings.

55. **RETAIL PIECE GOODS** are mainly women's apparel type fabrics but all other types of apparel fabrics are included in addition to fabrics destined for apparel linings and home furnishings application.

56a. **NARROW FABRICS** includes **ELASTIC AND NONELASTIC TYPES**. The narrow woven goods, made by slicing thermoplastic fiber broad woven fabrics with a hot knife to produce fused edge narrow fabrics are not included here. **NARROW FABRIC** poundages for home furnishings and industrial uses are shown in those sections.

TOPWEIGHT FABRICS includes all shirts, blouses, lightweight dress and other lightweight fabrics. The fabrics generally weigh 5.0 ounces or less per square yard. Retail piece goods are in Item 55.

BOTTOMWEIGHT FABRICS includes pants, sportswear, tailored clothing, career apparel and other heavier weight fabrics. The fabrics generally weigh more than 5.0 ounces per square yard. Retail piece goods are in Item 55.

OTHER APPAREL includes men's & women's work gloves and handkerchiefs. Man-made fiber used for knitted accessories such as scarves, mufflers, gloves, caps, etc., is in Items 8 & 29.

GENERAL NOTES FOR THE END USE TABLES ON PAGES 192-198

Units are in million pounds.

c. Means less than 50,000 pounds, i.e., nominal.

Means that little, or none, of the fiber is used.

* When an asterisk appears, there is a footnote at the end of the table.

• Means a significant revision in the 1974-1980 data series compared with the corresponding data shown in the November 1980 *Organon* issue. Earlier years data on the new basis are not available.

a. This letter in the title of each table refers the reader to these notes.

b. Man-made fiber end use in these tables is divided between Rayon/Acetate (the cellulose fibers) and Other (the non-cellulosic fibers plus textile glass fiber). Yarn includes monofilaments and olefin yarn; also includes film fiber and spunbonded polypropylene. Staple includes tow & fibertill, see Item 70a. Fibertill, Stiffing & Flock and its footnote on page 197. All textile glass fiber is tabulated as yarn. Certain waste poundages, which are tabulated with staple, are included; see text on page 180.

The non-cellulosic fibers included in this survey, for one or more years, are the acrylic, aramid, modacrylic, nylon, olefin (polyethylene & polypropylene), polyester, saran, spandex and vinylon fibers.

d. The staple data are tabulated in the yarn column.

e. The yarn data are tabulated in the staple column.

f. This datum shows a significant revision compared with the November 1980 *Organon* data.

When textile glass fiber is included in an end use, the word "Glass" appears in the lower left corner of the end use box, together with the annual consumption data for 1974-1980. These glass fiber poundages are included with non-cellulosic yarn in that end use and in the section totals.

When silk, linen, jute, sisal, etc., are consumed in an end use, in addition to cotton, wool and the man-made fibers, the fiber is named in the middle left of the end use box. But no poundage data for such fibers are included in either such end use or in the section totals.

As described in the footnotes to Items 54a and 54b above, apparel linings, pockets and such are tabulated in Items 54a and 54b and not with the applicable garments.

In the Apparel table, the sex and age classifications used are those of the U.S. Census Bureau. Thus **M** means Men's plus Boys, and **W** means all other persons except the foregoing (i.e., Women's, Misses, Juniors, Girls, Children's & Infants).

HOME FURNISHINGS^a

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
TOTAL HOME FURNISHINGS	1974 3353.0 1975 3252.5 1976 3526.3 1977 3842.3 1978 3995.7 1979 4093.0 1980 4660.3	2354.5 2294.1 2572.8 2904.7 3097.3 3216.8 2828.2	69.0 47.3 45.0 54.2 56.3 48.1 47.3	185.9 128.6 170.6 157.9 182.1 146.3 122.4	915.8 909.5 921.5 1072.1 1160.2 1234.0 1189.1	1183.8 1208.6 1435.7 1620.5 1698.8 1778.3 1469.3	965.5 906.5 920.6 905.6 863.0 849.3 806.3	33.0 31.9 33.0 32.0 31.3 26.2 25.8	
GLASS (1974-1980) 40.2 45.7 28.4 (1974-1977 11.4 12.1)									
51 CURTAINS & QUELINS ^c	1974 143.8 1975 147.7 1976 148.4 1977 147.4 1978 158.2 1979 147.1 1980 127.0	50.2 63.9 62.8 65.1 74.5 70.8 72.0	12.4 16.3 14.2 17.8 24.5 20.0 8.4	0.8 0.0 5.1 5.1 0.0 0.0 2.1	18.0 19.0 19.5 20.5 25.0 23.5 15.4	19.0 22.0 25.0 32.0 40.0 47.0 50.0	78.6 83.8 85.6 82.3 113.7 100.0 55.0		
56 BLANKETS & BLANKETING ^c	1974 120.1 1975 110.4 1976 107.7 1977 110.3 1978 129.2 1979 112.1 1980 109.1	100.0 102.0 103.8 111.7 113.7 100.8 97.2	0.5 0.1 0.1 0.2 0.1 0.1 2.0	0.6 0.5 0.5 0.2 0.1 0.1 2.0	4.4 4.2 4.0 4.8 4.7 4.1 4.5	100.7 98.0 88.9 110.7 107.9 94.1 91.7	9.7 9.0 8.8 8.8 8.5 7.8 7.0	3.4 3.8 5.6 5.8 6.0 4.5 4.0	
57 SHEETS & OTHER BEDDING ^c	1974 604.5 1975 470.0 1976 528.8 1977 525.2 1978 506.8 1979 510.7 1980 504.8	212.7 202.1 248.4 242.1 247.4 254.1 263.8	1.3 1.7 0.2 0.7 2.4 3.0 2.8	22.1 7.5 8.7 14.7 15.6 9.0 9.4	1.6 10.2 9.2 19.3 18.1 22.2 25.9	187.7 188.4 240.5 208.4 203.5 219.9 226.2	281.8 274.9 280.1 283.1 269.4 256.0 241.0		
58 TOWELS & TOWELING ^c	1974 901.5 1975 271.3 1976 285.5 1977 808.6 1978 808.2 1979 854.3 1980 852.8	4.0 15.2 13.4 28.5 27.0 33.3 35.3	2.1 1.2 0.5 0.5 0.5 0.5 0.0	1.9 12.0 12.9 28.0 27.4 34.8 34.4	1.9 12.0 12.9 28.0 27.4 34.8 34.4	207.5 258.2 272.1 280.1 280.5 400.0 207.5			
59 LINEN RAIL ^c	1974 801.5 1975 271.3 1976 285.5 1977 808.6 1978 808.2 1979 854.3 1980 852.8	4.0 15.2 13.4 28.5 27.0 33.3 35.3	2.1 1.2 0.5 0.5 0.5 0.5 0.0	1.9 12.0 12.9 28.0 27.4 34.8 34.4	1.9 12.0 12.9 28.0 27.4 34.8 34.4	207.5 258.2 272.1 280.1 280.5 400.0 207.5			
59 NARROW TAPE ^c	1974 1.0 1975 7.1 1976 0.5 1977 5.7 1978 7.2 1979 0.2 1980 5.3	2.9 0.0 0.8 1.3 2.3 1.9 1.4	2.0 0.0 0.8 0.5 1.4 0.0 0.1				7.0 6.5 5.7 4.1 4.7 4.3 3.9		

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
TOTAL	1974 1600.0 1975 1584.4 1976 1781.8 1977 2011.2 1978 2178.1 1979 2270.7 1980 1926.5	1550.2 1552.9 1752.9 1986.7 2149.1 2245.2 1900.7	1.1 0.6 0.3 1.0 0.9 0.6 0.2	2.9 1.7 1.8 1.0 0.9 0.6 0.2	758.8 823.8 755.4 881.2 970.4 1038.5 1001.8	790.4 823.8 905.4 1102.5 1177.8 1204.1 898.7	22.0 14.9 14.4 14.7 15.8 16.6 15.2	19.4 16.6 15.3 12.8 14.2 10.9 10.4	
50 JACKET ^c	1974 1428.4 1975 1417.7 1976 1580.4 1977 1709.4 1978 1938.1 1979 2000.0 1980 1680.2	1405.0 1407.8 1571.6 1780.7 1921.7 1994.4 1672.7	1.7 1.7 1.8 1.0 0.9 0.0 0.2	2.9 2.7 2.7 2.0 2.0 2.0 2.0	615.8 818.2 992.1 1094.9 1104.1 1170.0 808.5	786.3 818.2 992.1 1094.9 1104.1 1170.0 808.5	4.0 4.4 4.5 4.9 5.2 4.7 4.1	19.4 16.6 15.3 12.8 14.2 10.9 10.4	
50S BAKING ^c	1974 172.2 1975 166.7 1976 191.4 1977 214.8 1978 240.0 1979 261.7 1980 240.0	154.2 155.1 181.5 204.0 227.3 248.8 228.0	1.1 1.1 0.8 1.0 1.0 1.0 1.0	1.1 0.6 0.8 1.0 1.0 1.0 1.0	143.0 148.9 177.7 190.4 213.7 220.7 197.8	161.1 168.9 177.7 190.4 213.7 220.7 197.8	10.1 5.6 4.4 7.0 13.7 28.1 30.2	18.0 18.0 16.1 10.8 11.6 11.9 12.1	
51 CURTAINS ^c	1974 53.4 1975 67.6 1976 67.5 1977 74.0 1978 88.7 1979 74.0 1980 89.5	49.0 53.6 54.1 62.0 78.2 62.5 80.1	0.6 0.6 0.7 1.8 1.8 1.4 1.0	7.5 13.0 19.1 16.5 19.1 10.6 7.5	10.5 26.5 19.8 25.4 25.5 25.7 28.4	8.4 10.5 11.5 20.6 20.8 20.0 40.2	14.3 14.0 15.4 12.0 10.5 10.0 10.4		
52 DRAPEY & CYPHOUSERY ^c	1974 588.6 1975 522.3 1976 560.0 1977 587.0 1978 587.2 1979 575.1 1980 488.0	451.2 291.5 359.1 379.8 425.5 475.5 328.8	42.0 26.0 26.4 41.5 42.5 47.5 34.1	143.0 98.0 145.0 121.0 158.0 115.0 94.4	109.2 117.5 108.4 109.1 103.4 112.6 94.7	57.0 50.0 60.5 109.2 100.4 155.4 105.0	226.5 220.8 215.0 193.8 180.8 105.1 148.5	9.2 10.5 11.0 13.4 10.1 11.5 11.4	
50K LINEN RAIL ^c	1974 49.4 1975 49.0 1976 44.5 1977 52.0 1978 52.1 1979 74.0 1980 75.0	25.5 15.7 8.0 25.5 22.8 45.7 48.0	2.4 0.2 0.3 2.0 2.6 2.5 1.5	0.9 0.5 0.1 0.8 0.0 5.6 5.8	7.4 5.4 5.2 14.1 12.3 18.5 18.8	12.7 7.0 2.4 9.1 5.9 10.1 22.1	20.1 25.0 26.5 27.4 29.5 28.2 27.9		

NOTES FOR HOME FURNISHING ITEMS OPPOSITE

a. For all lettered and general footnotes to this table, see page 193.

HOME FURNISHINGS. These data cover the use of each item not only in homes, but also in offices, hotels, institutions, etc. For certain transportation uses, note Items 50a, 65 & 64.

None of the poundages tabulated include any cotton stuffing or filling materials in items such as furniture, pillows, mattresses, comforters & quilts, sleeping bags, seat padding, etc. For the man-made fibers, however, stuffing & fiberfill is tabulated in the Industrial section. Note text page 186 regarding the inclusion of certain man-made fiber waste poundages here. Certain felt poundages are in Item 70.

45. BEDSPREADS includes tailored & throw spreads, both tufted & woven, as well as the backing. **QUILTS** includes comforters and their outer shell, quilted pads are in Item 47.

46. BLANKETS & BLANKETING includes woven, knitted, needle punched and flocked full size and crib blankets and electric blanket shells, as well as the woven acetate or nylon filament yarn bindings thereof. Sizeable poundages of rayon, acrylic, nylon & wool waste are included here.

47. SHEETS includes pillowcases. **OTHER BEDDING** includes the outside cover of quilted pads, mattress pads, mattresses & inner-springs, civilian cots and sleeping bags. Mattress felts are in Item 70. The man-made staple poundages here are mainly polyester for sheets and rayon & polyester for bed ticking. The man-made filament is chiefly polyester for bed ticking.

48. TOWELS & TOWELING includes woven hand, bath, dish towels, etc. Nonwoven towels, such as "Handi-wipes" and industrial wiping cloths, are in Item 64. The large cotton waste poundage used in these products is not included.

50b. NARROW FABRICS includes only home furnishings applications. See the Apparel and Industrial sections for Narrow Fabrics in those applications.

50. CARPETS & RUGS (TOTAL) is the sum of 50a & 50b.

50a. FACE YARNS. The data include tufted, woven, knitted and needle-punched types. Tufted includes broadloom & roll goods, transportation carpeting, scatter rugs, bath mats and grass. Woven includes carpets such as Axminster, Velvet, Wilton, etc. Knit goods are mainly scatter rugs. Needle-punched are the indoor-outdoor carpets. Item 50a does not include braided, hooked or woven twisted paper carpets.

By fiber detail on the poundage of fibers used in carpet face yarns is given in the table below.

50b. CARPET BACKING FIBERS. The R+A Yarn is industrial rayon used for woven carpet chain warps. The Other Yarn is olefin (monofil-fiber-spun-bonded) and small poundages of nylon & polyester filament yarn. The Other Staple is olefin only.

The substantial poundages of jute used as woven primary & secondary carpet backing, as well as the jute yarn used in the warp of woven carpets, are not tabulated in Item 50b. Nor does it include the poundages of wool, hair and jute used in carpet and rug pads and cushions.

51. CURTAINS includes lace and other types (principally woven), i.e., cafe, tiered & cottage, tufted, shortie drapes and tailored, shower curtains are in Other Home Furnishings.

52. DRAPERY & UPHOLSTERY includes furniture slip covers and vinyl coated cotton fabrics for upholstery. The olefin & saran webbing for outdoor furniture is included under Narrow Woven Industrial (Item 50c). Also includes the backing & headers of drapery fabrics. The cotton data include cotton drapery linings.

OTHER HOME FURNISHINGS includes woven & lace napery, such as tablecloths & napkins, doilies, etc., as well as the cotton in window shades. For the man-made fibers it includes insect screening & netting. Wall covering fabric is in Miscellaneous Industrial.

ITEM 50A. ANALYSIS OF FACE YARNS BY CARPET TYPE & BY FIBER

MILLION POUNDS

	1974	1975	1976	1977	1978	1979	1980
FILAMENT YARN BCF (Bulked Continuous Filament)							
NYLON	530.0	517.8	511.9	417.8	477.8	742.9	714.5
POLYESTER	0.0	0	0	0	0	0	0
FILAMENT, INCL. TUBETEX	50.2	40.3	45.8	47.1	78.0	85.4	80.5
TOTAL BCF	615.8	577.9	577.7	684.8	756.7	817.8	804.0
STAPLE & WASTE (Spun Yarn)							
RAYON	2.0	1.7	1.8	1.0	0.0	0.0	0.2
NON-CELLULOSIC							
ACRYLIC MONOMER	118.5	80.8	91.5	70.7	105.0	40.0	89.5
NYLON	405.0	518.4	158.4	701.1	848.4	881.0	901.7
POLYESTER	154.1	148.3	200.1	214.5	208.1	204.0	142.1
COTTON	58.7	54.0	33.2	45.0	44.0	41.5	41.2
TOTAL NON-CELLULOSIC	786.3	818.2	992.1	1094.9	1164.1	1176.0	868.5
COTTON	3.0	5.4	5.3	2.0	5.2	8.7	5.1
WASTE	10.4	10.0	15.5	12.8	15.2	10.0	10.4
GRAND TOTAL	1428.4	1417.7	1590.4	1796.4	1958.1	2009.0	1686.2

INDUSTRIAL & OTHER CONSUMER-TYPE PRODUCTS^a

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
TOTAL	1974 2832.7 1975 2485.9 1976 2954.4 1977 3144.6 1978 3323.3 1979 3475.1 1980 3085.0	2274.4 1988.3 2377.6 2609.1 2842.5 3005.0 2654.1	118.0 61.9 60.8 62.1 66.7 50.4 39.8	269.1 202.1 254.1 254.3 234.8 220.5 209.2	1528.0 1332.3 1591.6 1742.6 1903.9 2009.1 1797.4	359.3 392.1 471.1 550.1 637.1 725.0 607.7	548.5 491.1 569.3 527.5 471.8 461.6 420.2	10.0 6.4 7.5 8.0 9.0 8.5 10.7	
INDUSTRIAL & OTHER	1974 81.0 1975 68.3 1976 82.0 1977 81.5 1978 85.7 1979 80.2 1980 78.0	54.1 39.2 37.8 62.0 68.4 70.5 65.8	1.1 0.3 0.3 0.2 0.2 0.2 1.0	1.8 0.3 0.0 0.2 0.5 0.4 1.0	50.1 58.8 50.7 61.8 67.3 70.0 60.0	1.2 20.1 25.0 3.3 3.3 0.3 2.8	51.5 20.1 25.0 10.5 17.4 15.7 14.8		
CONSUMER	1974 250.4 1975 233.5 1976 294.8 1977 317.7 1978 325.8 1979 308.5 1980 281.0	177.9 150.0 200.0 219.0 240.0 250.0 254.1	11.4 15.0 17.0 17.8 16.5 15.0 14.7	0.1 1.0 10.0 22.0 24.5 24.5 5.0	91.5 11.0 10.0 10.5 41.5 80.4 80.8	6.5 5.0 0.0 0.5 0.5 0.4 0.8	79.4 82.0 92.7 97.8 95.3 98.6 97.8		
TEXTILE	1974 58.4 1975 42.0 1976 58.4 1977 58.2 1978 60.4 1979 59.0 1980 47.6	22.1 10.0 10.4 10.5 12.5 12.5 8.0	0.0 0.0 0.0 0.5 0.0 0.0 1.1	8.0 1.1 2.5 5.8 6.5 2.0 1.1	5.4 8.1 12.4 13.4 10.4 18.8 18.5	10.0 20.8 24.0 20.0 10.0 120.2 18.5	90.8 51.4 54.0 28.7 21.0 10.5 11.4		
NONTEXTILE	1974 621.8 1975 508.4 1976 504.0 1977 500.0 1978 508.5 1979 512.4 1980 482.8	612.8 502.0 504.0 502.0 508.0 505.0 482.8	50.5 24.0 8.0 45.8 47.0 25.7 20.5	58.4 17.0 58.0 52.0 55.0 50.2 50.5	8.5 0.4 5.0 0.7 5.0 5.8 5.8	8.5 15.0 5.0 0.7 15.0 11.8 11.4	8.5 0.4 5.0 0.7 15.0 11.8 11.4		
YARN	1974 54.6 1975 48.2 1976 45.8 1977 44.0 1978 48.5 1979 52.4 1980 45.0	48.1 42.5 45.4 47.8 48.5 47.2 45.0	22.0 14.5 14.2 14.0 16.0 15.5 11.0	17.0 11.0 11.0 15.0 18.5 19.0 18.5	3.1 8.4 0.0 7.0 9.0 11.8 8.5	0.2 5.0 0.0 0.8 0.0 0.2 0.0	0.2 5.0 0.0 0.8 0.0 0.2 0.0		
WEFT	1974 70.4 1975 77.5 1976 80.8 1977 79.4 1978 70.8 1979 91.0 1980 62.0	55.8 50.0 50.5 54.4 57.4 75.0 62.0	4.5 6.0 6.1 5.2 5.4 7.7 6.7	1.0 0.4 1.0 0.2 1.1 0.2 1.0	50.0 42.5 43.4 47.1 48.1 66.7 54.5	13.7 16.7 16.8 18.1 18.1 20.3 13.3	20.0 17.0 21.2 20.0 114.4 115.7 11.5		
INDUSTRIAL & OTHER	1974 681.8 1975 419.0 1976 540.0 1977 609.8 1978 678.8 1979 712.5 1980 667.1	459.8 304.0 511.0 504.8 658.8 687.5 622.1	0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	458.7 304.0 511.0 504.8 658.8 687.5 622.1	24.0 25.0 25.0 25.0 25.0 25.0 25.0	24.0 25.0 25.0 25.0 25.0 25.0 25.0		
CONSUMER	1974 24.0 1975 18.0 1976 19.7 1977 20.1 1978 25.8 1979 20.5 1980 28.1	10.5 9.0 9.7 11.5 15.8 17.0 17.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0	2.0 2.0 2.1 2.0 0.1 0.4 0.8	8.0 5.4 6.0 6.1 15.7 16.6 16.2	5.8 5.1 6.5 1.8 1.5 1.4 1.4	5.8 5.1 6.5 1.8 1.5 1.4 1.4		
TEXTILE	1974 10.4 1975 10.4 1976 10.4 1977 10.4 1978 10.4 1979 10.4 1980 10.4	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		
NONTEXTILE	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
YARN	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
WEFT	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
INDUSTRIAL & OTHER	1974 681.8 1975 419.0 1976 540.0 1977 609.8 1978 678.8 1979 712.5 1980 667.1	459.8 304.0 511.0 504.8 658.8 687.5 622.1	0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	458.7 304.0 511.0 504.8 658.8 687.5 622.1	24.0 25.0 25.0 25.0 25.0 25.0 25.0	24.0 25.0 25.0 25.0 25.0 25.0 25.0		
CONSUMER	1974 24.0 1975 18.0 1976 19.7 1977 20.1 1978 25.8 1979 20.5 1980 28.1	10.5 9.0 9.7 11.5 15.8 17.0 17.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0	2.0 2.0 2.1 2.0 0.1 0.4 0.8	8.0 5.4 6.0 6.1 15.7 16.6 16.2	5.8 5.1 6.5 1.8 1.5 1.4 1.4	5.8 5.1 6.5 1.8 1.5 1.4 1.4		
TEXTILE	1974 10.4 1975 10.4 1976 10.4 1977 10.4 1978 10.4 1979 10.4 1980 10.4	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		
NONTEXTILE	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
YARN	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
WEFT	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
INDUSTRIAL & OTHER	1974 681.8 1975 419.0 1976 540.0 1977 609.8 1978 678.8 1979 712.5 1980 667.1	459.8 304.0 511.0 504.8 658.8 687.5 622.1	0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	458.7 304.0 511.0 504.8 658.8 687.5 622.1	24.0 25.0 25.0 25.0 25.0 25.0 25.0	24.0 25.0 25.0 25.0 25.0 25.0 25.0		
CONSUMER	1974 24.0 1975 18.0 1976 19.7 1977 20.1 1978 25.8 1979 20.5 1980 28.1	10.5 9.0 9.7 11.5 15.8 17.0 17.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0	2.0 2.0 2.1 2.0 0.1 0.4 0.8	8.0 5.4 6.0 6.1 15.7 16.6 16.2	5.8 5.1 6.5 1.8 1.5 1.4 1.4	5.8 5.1 6.5 1.8 1.5 1.4 1.4		
TEXTILE	1974 10.4 1975 10.4 1976 10.4 1977 10.4 1978 10.4 1979 10.4 1980 10.4	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		
NONTEXTILE	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
YARN	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
WEFT	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
INDUSTRIAL & OTHER	1974 681.8 1975 419.0 1976 540.0 1977 609.8 1978 678.8 1979 712.5 1980 667.1	459.8 304.0 511.0 504.8 658.8 687.5 622.1	0.1 0.0 0.0 0.0 0.0 0.0 0.0	0.1 0.0 0.0 0.0 0.0 0.0 0.0	458.7 304.0 511.0 504.8 658.8 687.5 622.1	24.0 25.0 25.0 25.0 25.0 25.0 25.0	24.0 25.0 25.0 25.0 25.0 25.0 25.0		
CONSUMER	1974 24.0 1975 18.0 1976 19.7 1977 20.1 1978 25.8 1979 20.5 1980 28.1	10.5 9.0 9.7 11.5 15.8 17.0 17.0	0.5 0.0 0.0 0.0 0.0 0.0 0.0	2.0 2.0 2.1 2.0 0.1 0.4 0.8	8.0 5.4 6.0 6.1 15.7 16.6 16.2	5.8 5.1 6.5 1.8 1.5 1.4 1.4	5.8 5.1 6.5 1.8 1.5 1.4 1.4		
TEXTILE	1974 10.4 1975 10.4 1976 10.4 1977 10.4 1978 10.4 1979 10.4 1980 10.4	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0	10.4 10.4 10.4 10.4 10.4 10.4 10.4	0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0 0.0 0.0 0.0		
NONTEXTILE	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 311.2 254.0	17.0 10.5 17.0 16.7 14.8 15.5 16.3	17.0 10.5 17.0 16.7 14.8 15.5 16.3	163.5 189.7 213.4 185.0 253.3 295.7 237.7	0.3 0.2 0.2 0.2 0.2 0.2 0.2	163.5 189.7 213.4 185.0 253.3 295.7 237.7		
YARN	1974 180.5 1975 200.2 1976 230.4 1977 201.7 1978 268.1 1979 311.2 1980 254.0	180.5 200.2 230.4 201.7 268.1 31							

NOTES FOR INDUSTRIAL & OTHER CONSUMER-TYPE ITEMS OPPOSITE

a. For all lettered and general footnotes to this table, see page 195.

50c. NARROW FABRICS here includes woven labels, industrial webbing, shoelaces, tapes (venetian blinds & industrial), transportation seat belts, air windlace, channeling & trim, and outdoor furniture webs. These figures exclude transmission & conveyor belting (in item 67), friction tape and the braided narrow fabric used in electrical applications (in item 69), and gummied cotton tape (in item 70).

61. MEDICAL, SURGICAL & SANITARY includes bandages, gauzes, adhesive tapes & plasters, sanitary napkins & tampons, cotton diapers, rayon disposable diapers, surgical gowns and packs. Medical sutures are tabulated in item 72. Surgical hosiery is in items 19 & 40. Not included here is cotton waste & linters nor any nontextiles used for filling materials.

65 & 66. TRANSPORTATION FABRIC includes auto seat upholstery & slip covers, sidewall, headlining (except textile glass in item 77) and sheeting. The cotton poundages include the knit and woven fabric used as the backing for vinyl sheeting. The item includes convertible auto tops & replacements thereof, as well as upholstery used in other kinds of transportation, such as airplanes, railroad & subway cars, buses, etc. It does not include seat padding, transportation rugs (in item 50), window channeling (in item 56), flocking, tassels, trim, etc. or the textile glass fiber used in reinforced plastic seating for subways, buses, etc. (in item 77). Starting in 1978, the man-made fiber used for substrates for automotive fabric is included in item 75.

65. TIRES includes all types (i.e., automobile, truck, tractor, off road, bicycle, etc.). The data include tire cord & tire cord fabric, chafer and other tire components (i.e., flipper fabric, breaker strips, bead wraps, etc.).

The data include imports of tire yarn, cord & fabric, and also cover any poundages subsequently exported in cord or fabric form. The glass figures represent uncoated yarns.

The consumption of steel tire cord for the years 1974-1980 inclusive is estimated as follows: 97.5, 117.5, 140.0, 182.0, 182.0, 180.0, & 142.0. However, these poundages are **not included** in item 65 above.

66. HOSE includes fire, chemical, fuel, etc. Does not include braided vacuum cleaner hose.

67. BELTING includes flat conveyor & transmission belts (both rubberized and nonrubberized) and V-belts.

69 & 77. ELECTRICAL APPLICATIONS & REINFORCED PLASTICS. The cotton poundages are estimated.

Electrical Applications includes electric wire insulation & covering of all kinds plus friction tape and cable wrap, stuffing & identification. The total fiber consumed does not reflect the increased use of plastic and other nonfibrous coatings of course.

Reinforced Plastics means high- and low-pressure laminates used in the manufacture of construction materials (corrugated & flat sheet, plumbing accessories, etc.), process equipment (tanks & containers, pipes, ducts, etc.), transportation uses (aircraft, autos, trucks, etc.), and marine, missiles, molded electrical parts, housing, seating trays, etc. Flexible laminates of cotton are tabulated by end use, e.g., vinyl supported upholstery fabric in item 65, etc.

70. FELTS includes wet & dry papermakers' felts, mattress felts and cushioning & wicking felts. Apparel felts (e.g., for shirts) are classified by apparel products. Felt and similar felts are in item 50a. Laundry press pads and flannel inier pads are in Miscellaneous Industrial. The wool poundage includes some felts used in filtration (recorded here and not in item 71), but excludes the substantial amounts used in pressed felts.

71. FILTRATION includes woven and nonwoven filters for wet & dry filtration, including tea bags. The small wool poundage used in the copper refining industry is included in item 70.

The fiber used in cigarette filtration is **not included** in this end use or in the Industrial Uses totals.

72. SEWING THREAD includes home sewing and industrial & weight goods, as well as medical sutures.

73. ROPE (braided & twisted), **CORDAGE** (cable & braid), **FISHLINE, ETC.** includes hawsers, halyes or halyard twine, clothesline, tying twine, etc., as well as fishnets, seines & netting twine.

74. BAGS & BAGGING. The mill-made Other Yarn is nylon mudbags plus olefin (leno) mesh & close woven bags, including sandbags, also includes olefin bagging for wool bales. Carpet backing burl wrap is in Other Industrial.

75. COATED & PROTECTIVE FABRICS includes, for the man-made fibers, tents & tarpaulins, as well as the substrates for vinyl, rubber or urethane coating, lamination or impregnation. Examples of specific end uses covered include parachutes, decontamination clothes & tow targets, awnings, beach, garden & tractor umbrellas, inflatable sluggage & cushions, air supported structures & automotive air spring diaphragms and boat & pool covers.

The cotton poundages include awnings, boat covers, tarpaulins and tents. **Not included** are the cotton poundages used for vinyl substrates, such poundages are tabulated with their appropriate end use (i.e., transportation upholstery (items 65 & 66), upholstery (item 62), etc.). Man-made fiber surfaces for recreational fields are not included in this survey.

76. PAPER & TAPE REINFORCING includes gummied and pressure sensitive tape, as well as nonwoven bonded structures for paper, tape and ribbon reinforcing.

79a. FIBERFILL, STUFFING & FLOCK includes all applications (apparel, home furnishings & industrial). Both graded fiber and waste are included. The consumption of polyester staple & tow in fiberfill for the years 1974-1980 inclusive was 126.8, 138.1, 152.8, 170.0, 198.2, 250.0, & 205.1. For the same years, use of polyester waste for stuffing and filling materials was 54.0, 42.5, 54.6, 59.1, 41.5, 45.4 & 26.0.

79b. UNALLOCATED NONWOVENS means all nonwoven poundages remaining after the identifiable nonwoven end uses, such as medical, surgical & sanitary, filtration, lined & protective fabrics, and paper & tape reinforcing, have been calculated.

MISCELLANEOUS INDUSTRIAL & OTHER CONSUMER TYPE PRODUCTS includes the cotton for abrasives, book binding, luggage & handbags, shoes & slippers, tobacco cloth, woven wiping cloths and wall covering fabrics. For rayon, it includes asbestos carrier fiber, laundry supplies and mop yarns. For olefin yarn, it includes agricultural cloth, burl wrap, cable binding, civil engineering fabrics and micromic and other craft yarns.

Also included under Other Yarn are the substantial poundages of textile glass fiber not allocated elsewhere, particularly the poundages used in the manufacture of roofing slingles, built up roofing and wallboard & plaster.

EXPORTS OF DOMESTIC PRODUCTS^a

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
TOTAL	1974	492.3	222.4	21.2	34.4	72.2	94.6	255.1	14.8
EXPORTS OF DOMESTIC PRODUCTS	1975	441.5	194.0	23.3	26.8	68.3	75.6	234.4	13.1
	1976	476.1	202.5	26.0	26.9	66.1	83.5	266.9	6.7
	1977	417.7	192.7	23.2	28.2	60.8	80.5	220.9	4.1
	1978	448.8	225.2	22.0	21.5	76.0	105.7	219.8	3.8
	1979	620.4	313.4	21.0	12.0	128.6	151.8	301.3	5.7
	1980	617.5	351.8	20.0	10.8	141.0	180.0	259.3	6.4
80. YARN, THREAD, ETC.*	1974	85.5	47.6	0	9.6	0	58.0	24.0	13.9
	1975	50.5	27.7	0	4.2	0	25.5	17.0	11.8
	1976	51.1	30.0	0	10.0	0	30.0	18.5	5.7
	1977	50.6	40.5	0	8.4	0	30.1	16.9	4.2
	1978	2.8	47.7	1	4.5	0	54.2	52.0	2.0
	1979	104.2	55.8	0	4.1	0	51.8	54.2	4.2
	1980	105.1	56.4	0	4.4	0	50.0	47.0	4.8

NOTES FOR EXPORT ITEMS ABOVE

a. For all lettered and general footnotes to this table, see page 193.

These exports do not duplicate the end use poundages that are reported in Items 1 through 79. Apparel items are not tabulated here because they already have been counted as the fabric was cut, i.e., they are counted only once regardless of the subsequent place of sale or consumer use.

Similarly, fabrics for blankets, sheets, upholstery & draperies, carpets, etc., are excluded since they are measured at the mill level as an end use.

The exports of man-made fiber filament yarns, monofilaments, staple tow, etc., are not tabulated in this section because these products are not a factor in U.S. mill consumption.

On the other hand, the two export items are recorded because, while they were

END USE & YEAR	TOTAL FIBER	MAN-MADE FIBERS ^b						COTTON	WOOL
		TOTAL	RAYON-ACETATE		OTHER				
			YARN	STAPLE	YARN	STAPLE			
81. WOVEN & KNIT FABRIC*	1974	406.8	174.8	21.2	24.8	72.2	50.0	251.7	10.0
	1975	485.0	166.3	23.3	22.0	68.3	52.1	217.4	1.3
	1976	415.0	165.6	26.0	20.9	66.1	52.0	248.4	1.0
	1977	358.1	155.2	23.2	18.8	60.8	50.4	204.0	0.9
	1978	376.5	187.5	22.0	18.0	76.0	71.5	187.8	1.2
	1979	526.2	257.6	21.0	8.0	128.6	100.0	207.1	1.5
1980	512.4	298.5	20.0	7.5	141.0	150.0	212.5	1.6	
82. FIBRE CORD & CORD FABRIC*	1974								
	1975								
	1976								
	1977								
	1978								
	1979								
1980									

INCL. IN ITEM 80 (SEE 65)

processed or fabricated in U.S. mills, they were exported before reaching the point at which end use is measured.

These data agree with the corresponding figures on page 57 of the March 1981 *Organon*, as revised.

80. YARN, THREAD, ETC. consists of sliver, tops & roving, plied, thrown and spun yarn, sewing thread and handwork yarns, cotton twine and cordage, and advanced wool.

81. WOVEN & KNIT FABRIC, consists of broad & narrow woven fabrics and knit cloth, except that cotton also includes table damask and tire cord & fabric. See footnote 7 on page 57 of the March 1981 *Organon*.

82. FIBRE CORD & CORD FABRIC. The data shown in this series in previous *Organon* issues have been incorporated into Item 65, Tires. See footnote 65 on page 197.

(Continued from page 193)

by end use.

Rayon has retained its predominance of the tire market in the EEC (at around 70%), and wool still retains some 18% of the EEC carpet market. This compares with 5% and 1/2% respectively in the U.S.

U.S. APPAREL MARKET

The table on page 199 opposite shows estimates of the 1978-9 Months 1981 apparel market in the United States on a raw fiber basis. The table is based on available supply rather than the actual consumption of apparel.

In the case of man-made fibers, the data on domestic shipments of fiber going into apparel, as reported to the Textile Economics Bureau, are the starting point. That portion of fiber and yarn imports going into the apparel sector is then estimated. Thus, the total of domestic shipments plus fiber imports is the rough equivalent of mill consumption for cotton and wool.

Next, imports of fabric destined for the apparel industry were estimated and added to the above total. Finally, exports of processed yarn and fabrics were deducted from the total to arrive at the apparel consumption at the cutting level. This corresponds to the apparel total shown on page 192 herewith. By adding to this total the net imports of garments (see page 37 of the March *Organon* issue), the total man-made apparel available for consumption is arrived at.

Similarly, for cotton and wool, imports of yarn and

fabric destined for apparel are added to U.S. mill production. Then the net imports of garments were added to this total to arrive at the available apparel supply.

For the first nine months of 1981, total available supply of apparel totaled 4,267 million pounds (5,690 million pounds annualized) as compared with 5,268 million pounds in 1980. Of this nine month total 1,173 million pounds (1,560 million pounds annualized) or 27.5% were imports as compared with 1,254 million pounds or 23.8% in 1980.

The increased import penetration in 1981 is mainly in the cotton area, in the form of both fabric and garments. On an annualized basis, U.S. mill production of apparel fabric is expected to total some 1,300 million pounds this year (down 10% from the 1980 level of 1,447 million pounds) whereas available supply is expected to total some 2,020 million pounds in 1981 (up 5 1/2% from the 1,917 million pounds in 1980). Thus, imports represent some 42% of the 1981 cotton apparel market as compared with 34% in 1980. As shown on page 204, over the past few quarters, the import balance for cotton manufactures has been increasing.

AMERICAN ENKA SELLS FIBRON SUBSIDIARY

American Enka Company has sold its Fibron subsidiary to Harbour Group, Ltd., of Clayton, MO. The Fibron plant, located in Chattanooga, TN, produces olefin slit film yarn for the sliver knit industry.

ESTIMATES OF THE APPAREL MARKET IN THE U.S. AVAILABLE-FOR-DOMESTIC-CONSUMPTION BASIS

MILLION POUNDS (RAW FIBER BASIS)

ITEM	1978			1979			1980			9 MOS 1981		
	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS	TOTAL	TOTAL IMPORTS	% TOTAL IMPORTS
COTTON												
IMPORTS OF YARN FOR APPAREL ^a	51	51		12	12		79	10		18	18	
IMPORTS OF FABRIC FOR APPAREL ^{a b}	195	195		154	154		108	108		250	250	
FABRIC FROM 8 MILLS	1,457			1,470			1,447			972		
ORGANON END-USE SURVEY COTTON APPAREL ^c	1,085	220		1,050	160		1,054	107		1,220	248	
IMPORTS OF GARMENTS ^a	450	450		420	420		464	464		590	590	
EXPORTS OF GARMENTS ^a	62			50			180			98		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	2,051	656	32%	1,971	592	30%	1,917	651	34%	1,511	657	43%
MAN-MADE FIBERS												
IMPORTS OF YARN FOR APPAREL ^d	5,104			5,111			5,142			2,445		
IMPORTS OF FABRIC FOR APPAREL ^e	178	178		100	100		84	84		114	114	
IMPORTS OF FABRIC FOR APPAREL ^{a f}	90	90		74	74		74	74		40	40	
EXPORTS OF SEMI-MANUFACTURED PRODUCTS ^a	225			515			652			214		
ORGANON END-USE SURVEY MAN-MADE APPAREL ^c	5,155	277		2,071	178		2,047	157		2,572	145	
IMPORTS OF GARMENTS ^a	420	420		400	400		470	470		545	545	
EXPORTS OF GARMENTS ^a	49			61			127			96		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	5,552	703	12%	5,270	533	10%	5,199	536	10%	2,611	478	18%
WOOL												
IMPORTS OF YARN FOR APPAREL ^a	10	10		4	4		4	4		5	5	
IMPORTS OF FABRIC FOR APPAREL ^a	20	20		21	21		21	21		24	24	
FABRIC FROM 8 MILLS	107			100			100			90		
ORGANON END-USE SURVEY WOOL APPAREL ^c	155	52		532	20		128	25		117	27	
IMPORTS OF GARMENTS ^a	45	45		50	50		42	42		51	51	
EXPORTS OF GARMENTS ^a	5			5			15			4		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	178	77	43%	165	65	39%	152	67	44%	145	58	40%
TOTAL (3 FIBERS) AVAILABLE FOR CONSUMPTION	5,761	1,436	25%	5,406	1,190	22%	5,268	1,254	23%	4,267	1,173	27%

a. See page 57 of the March 1981 *Organon* issue.

b. Total cotton fabric imports less estimated poundages for nonapparel uses.

c. See page 192 herewith.

d. Domestic shipments of man-made fibers used in calculating the apparel and uses shown on page 192.

e. Grand Total man-made fiber imports from page 156 of the September 1981 *Organon* issue less estimated poundages for nonapparel uses.

f. Total man-made fiber fabric imports from page 57 of the March 1981 *Organon* issue less estimated poundages for nonapparel uses.

Harbour Group will operate the plant as Fibron Corporation of Tennessee. Corporate headquarters of Fibron Corp. will be relocated to St. Louis, MO. Harbour Group's existing olefin operations include Synthetic Industries, Inc., Chickamauga, GA, and Synthetic Industries (Texas), Houston, TX, in the U.S. and Synthetic Industries (Ireland), Ltd., Newry, Down, Northern Ireland.

SEPTEMBER *Organon* CORRECTION

On page 148 of the September issue, the listing for nylon other was inadvertently omitted from the Du Pont Company listing of products. The plant is located in Chattanooga, TN and produces yarn for *Qiana* fabrics. Only the trade name *Qiana* should have been omitted, as this is now a certification mark.

THIRD QUARTER PRODUCTION OF MAN-MADE FIBERS DECREASES 3½%

Production of man-made fibers (except acetate staple+tow & rayon, saran and spandex yarn+monofilaments) totaled 2,489.0 million pounds in the July Sep-

tember quarter this year, a decrease of 87.4 million pounds or 3½% below the 2,576.4 million pounds produced during the second quarter of 1981. However, third quarter 1981 output was 351.2 million pounds, or 16% above the 2,137.8 million pounds produced during the third quarter of 1980.

Rayon and olefin+vinylon staple+tow and textile glass fiber were the only fiber categories to show a quarter-to-quarter production gain. Third quarter production of olefin+vinylon staple+tow was at a record high level of 37.1 million pounds.

Non-cellulosic yarn+monofilament production (except saran and spandex) totaled 972.8 million pounds during the third quarter, 4% below second quarter output of 1,011.1 million pounds, but 19% above production of the corresponding 1980 quarter.

July-September 1981 output of non-cellulosic staple+tow totaled 1,051.3 million pounds, 6% below second quarter 1981 production, but 9½% above the 959.4 million pounds produced during the third quarter of 1980.

Third quarter 1981 production of acetate yarn+monofilaments totaled 65.8 million pounds, 12% below the

QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
YARN+MONOFILAMENTS^a															
ACETATE															
PRODUCTION	78.2	78.4	78.6	81.2	316.0	80.0	82.1	77.5	68.0	307.6	61.3	75.0	65.8		
SHIPMENTS: DOMESTIC	71.8	72.2	72.0	72.4	288.4	72.0	71.0	69.7	50.7	263.4	54.4	60.0	57.0		
EXPORT	6.4	6.2	6.6	8.8	31.0	8.0	11.1	7.8	17.3	40.1	7.9	15.0	8.8		
TOTAL	78.2	78.4	78.6	81.2	316.0	80.0	82.1	77.5	68.0	307.6	62.3	75.0	65.8		
ENDING STOCK	12.4	11.5	11.0	11.8		11.1	12.0	17.7	18.4		15.8	12.1	12.0		
NYLON+ARAMID															
PRODUCTION	442.5	440.0	459.0	459.2	1760.7	458.1	498.5	441.0	447.8	1845.4	435.1	428.0	404.9		
SHIPMENTS: DOMESTIC	405.8	424.0	400.1	401.9	1631.8	416.0	450.9	437.7	424.3	1728.9	480.5	480.1	440.4		
EXPORT	36.7	34.0	58.9	57.3	146.9	42.1	47.6	3.3	23.5	116.5	54.6	47.9	64.5		
TOTAL	442.5	440.0	459.0	459.2	1760.7	458.1	498.5	441.0	447.8	1845.4	535.1	528.0	504.9		
ENDING STOCK	158.0	140.0	142.4	160.4		162.4	178.7	121.1	101.0		118.0	125.5	158.0		
OLEFIN^b															
PRODUCTION	158.1	161.4	157.0	165.0	641.5	168.1	152.8	146.8	164.5	631.2	165.0	165.0	165.5		
SHIPMENTS: DOMESTIC	150.0	160.8	154.0	159.8	624.6	150.0	145.0	147.5	163.6	607.1	164.5	158.0	155.0		
EXPORT	8.1	10.6	13.0	5.2	36.9	18.1	7.8	9.3	10.9	44.1	0.5	7.0	10.5		
TOTAL	158.1	161.4	157.0	165.0	641.5	168.1	152.8	146.8	164.5	631.2	165.0	165.0	165.5		
ENDING STOCK	72.2	68.7	66.5	67.1		72.1	75.7	70.8	66.9		61.0	62.5	66.2		
POLYESTER															
PRODUCTION	450.0	457.4	463.0	498.8	1771.0	496.2	498.7	447.0	489.2	1931.1	480.2	418.1	405.4		
SHIPMENTS: DOMESTIC	406.1	402.8	452.0	464.2	1725.1	469.2	410.7	420.4	464.1	1754.4	455.0	404.0	466.5		
EXPORT	43.9	54.6	11.0	34.6	145.9	42.7	88.0	26.6	25.1	176.7	25.2	41.1	38.9		
TOTAL	450.0	457.4	463.0	498.8	1771.0	496.2	498.7	447.0	489.2	1931.1	480.2	418.1	405.4		
ENDING STOCK	135.5	154.4	157.0	152.5		144.0	151.0	120.8	117.8		112.1	104.5	109.5		
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	1057.2	1097.8	1099.0	1105.0	4160.0	1074.4	889.8	810.6	1001.5	3775.3	979.2	1011.1	972.8		
SHIPMENTS: DOMESTIC	962.0	987.1	960.1	925.4	3734.6	942.1	805.5	815.4	951.0	3514.0	900.4	948.7	861.7		
EXPORT	95.2	110.7	138.9	179.6	425.4	132.3	84.3	95.2	50.5	261.3	78.8	62.4	111.1		
TOTAL	1057.2	1097.8	1099.0	1105.0	4160.0	1074.4	889.8	810.6	1001.5	3775.3	979.2	1011.1	972.8		
ENDING STOCK	461.5	465.7	460.0	470.8		470.4	485.5	412.7	280.4		292.6	291.0	344.4		
DOMESTIC SHIPMENTS	962.0	987.1	960.1	925.4	3734.6	942.1	805.5	815.4	951.0	3514.0	900.4	948.7	861.7		
IMPORTS: TEXTILE YARN ^c	1.1	1.0	1.4	0.0	3.5	0.0	0.0	1.0	1.7	2.7	1.4	2.7	2.1		
OTHER YARN ^c	9.2	4.8	8.0	0.0	22.0	8.1	3.7	5.0	2.4	19.2	2.2	3.1	3.3		
MONOFILAMENTS	0.5	0.5	0.5	0.0	2.5	1.4	1.5	0.8	0.5	4.2	0.5	0.8	0.0		
TOTAL IMPORTS	10.8	6.3	9.9	0.0	28.0	9.5	5.2	6.8	4.6	26.1	4.1	6.6	5.4		
TOTAL AVAILABLE	968.8	993.1	911.0	925.4	3802.7	942.2	811.4	821.1	955.5	3545.2	904.5	945.4	868.0		

TEXTILE GLASS FIBER

PRODUCTION	242.4	278.8	263.7	249.8	1034.7	242.4	224.0	183.3	217.7	867.4	237.1	260.2	280.0		
SHIPMENTS: DOMESTIC	228.0	260.3	207.1	216.8	912.2	249.7	181.2	182.4	253.8	867.1	222.4	274.8	290.0		
EXPORT	14.4	18.5	15.6	13.0	69.5	15.7	14.8	10.9	63.9	80.3	14.7	85.4	90.0		
TOTAL	242.4	278.8	263.7	249.8	1034.7	242.4	224.0	183.3	217.7	867.4	237.1	260.2	280.0		
ENDING STOCK	18.5	10.0	14.6	15.2		120.0	158.0	149.7	104.1		109.0	87.0	121.0		
IMPORTS	2.0	3.5	2.7	2.0	10.2	2.0	2.0	1.7	1.0	6.7	2.0	2.7	7.4		
TOTAL AVAILABLE	240.4	281.8	280.0	266.8	1044.9	251.7	183.2	184.1	254.7	874.1	239.1	272.9	297.4		

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

^a Imports are imports for consumption, as reported by the U.S. Census Bureau.

^b Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only, see pages 20 & 21 of the February *Organon* for further details on these yarns.

^c Olefin Yarn+Monofilament data also include film fiber as well as

spunbonded polypropylene.

^d Yarn imports include singles and plied.

^e Acetate staple-tow data are available annually only, see pages 20 & 21 of the February *Organon* for further details.

^f These figures are composites of the nylon, acrylic/modacrylic, polyester and olefin staple imports, i.e. Commodity Numbers 309, 338, 342, 345 & 346.

previous quarter's level of 75.0 million pounds and 15% below the 77.5 million pounds produced during the July-September 1980 quarter. Rayon staple+tow production during the third quarter of 1981 increased 4% to

118.5 million pounds from the April-June level and was 17% above the 101.0 million pounds produced during the corresponding 1980 quarter.

(Continued on page 202)

QUARTERLY MAN-MADE FIBER DATA (Continued)

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON															
STAPLE+TOW^d															
PRODUCTION	142.7	142.7	128.1	145.9	549.4	126.9	113.4	101.0	102.0	443.3	116.3	114.1	118.5		
SHIPMENTS DOMESTIC	117.0	110.5	105.9	108.0	441.4	114.2	92.0	87.5	96.0	399.7	100.2	104.5	100.7		
EXPORT	26.5	22.5	22.8	23.5	100.1	14.0	17.8	13.5	15.0	61.0	14.0	15.2	14.2		
TOTAL	143.9	132.8	128.7	131.5	541.5	128.2	110.4	101.5	109.0	460.7	114.2	119.7	114.9		
ENDING STOCK	27.5	27.4	31.8	45.6		34.5	27.5	34.8	27.2		29.5	25.7	27.3		
DOMESTIC SHIPMENTS	117.0	110.5	105.9	108.0	441.4	114.2	92.0	87.5	96.0	399.7	100.2	104.5	100.7		
IMPORTS FOR CONSUMPTION															
STAPLE	0.5	4.5	2.0	1.5	15.9	1.4	1.5	2.4	2.9	8.0	3.6	3.4	3.9		
GROUPED FILAMENTS	0.5	0.9	0.7	0.5	2.6	0.7	0.7	0.5	0.6	2.5	0.4	0.7	0.6		
TOTAL IMPORTS	0.8	5.2	2.7	1.8	16.5	2.1	2.0	2.9	3.5	10.5	4.0	4.0	4.5		
TOTAL AVAILABLE	124.4	115.5	108.6	110.4	458.9	116.5	94.6	90.6	100.1	401.0	104.2	108.5	105.2		
NYLON+ARAMID															
PRODUCTION	255.4	246.9	255.6	254.9	956.8	214.0	128.3	161.2	223.1	726.6	214.9	235.2	185.8		
SHIPMENTS DOMESTIC	250.1	245.9	227.8	219.4	913.2	171.9	155.2	187.6	218.5	712.2	206.8	215.9	155.4		
EXPORT	7.2	7.4	8.4	8.5	31.5	8.8	6.1	7.7	9.3	31.9	7.3	8.1	4.5		
TOTAL	257.5	253.3	236.2	227.9	944.7	180.7	161.3	195.3	227.8	744.1	214.2	224.0	160.9		
ENDING STOCK	52.8	46.4	43.8	51.0		36.5	23.3	49.2	34.5		37.3	48.5	72.4		
IMPORTS	0.8	0.4	0.7	0.5	2.4	0.5	0.5	0.5	0.6	1.7	2.9	0.6	0.5		
TOTAL AVAILABLE	250.9	256.5	228.5	219.9	915.6	172.2	155.7	187.9	219.1	712.9	209.7	222.5	164.7		
ACRYLIC+MODACRYLIC															
PRODUCTION	187.5	192.4	184.2	197.2	761.3	206.4	197.7	182.1	193.0	779.2	190.8	176.8	166.8		
SHIPMENTS DOMESTIC	154.7	146.5	125.6	140.0	546.6	161.0	155.7	124.9	145.1	586.5	140.2	137.0	123.5		
EXPORT	32.2	56.5	61.0	54.1	223.8	50.0	45.9	47.1	44.2	187.8	55.1	50.3	42.5		
TOTAL	186.9	203.0	186.6	194.1	770.2	211.2	199.0	172.0	187.5	774.3	195.5	187.5	166.0		
ENDING STOCK	70.2	60.0	57.6	60.7		54.9	54.0	65.1	68.8		74.5	63.8	64.6		
IMPORTS	2.8	4.5	3.5	2.4	13.0	3.4	4.5	2.6	3.0	13.5	3.6	2.7	2.0		
TOTAL AVAILABLE	147.5	150.6	129.1	142.4	559.6	165.0	160.0	127.5	146.1	598.6	143.8	140.7	125.5		
OLEFIN+VINYON															
PRODUCTION	29.1	32.3	28.2	30.6	120.2	30.7	30.3	26.5	28.2	115.7	31.5	35.1	37.1		
SHIPMENTS DOMESTIC	30.1	31.4	28.0	29.8	119.3	28.9	26.3	27.0	32.8	115.0	31.9	35.5	32.2		
EXPORT	0.1	0.5	1.4	1.7	3.5	1.4	0.5	1.0	0.8	3.7	0.4	0.5	0.4		
TOTAL	30.2	31.7	29.4	31.5	122.8	30.3	26.8	28.0	33.6	118.7	32.3	36.0	32.6		
ENDING STOCK	21.7	22.3	21.1	20.2		20.6	24.1	22.6	17.2		16.2	15.5	20.0		
POLYESTER															
PRODUCTION	606.6	605.5	618.2	651.9	2482.2	654.3	584.2	589.6	699.6	2527.7	646.0	608.9	665.6		
SHIPMENTS DOMESTIC	547.6	545.4	522.8	540.6	2156.4	563.1	485.8	490.8	557.3	2097.0	493.2	525.9	507.5		
EXPORT	85.1	59.8	82.2	107.7	334.8	80.8	111.1	136.2	150.5	408.4	129.0	148.2	161.6		
TOTAL	622.7	605.2	605.0	648.3	2491.2	644.9	596.9	627.0	707.8	2505.4	622.2	674.1	669.1		
ENDING STOCK	170.1	172.4	185.6	179.2		185.6	173.9	160.5	166.5		190.3	185.1	179.6		
IMPORTS	0.8	1.1	0.5	0.7	3.1	0.4	0.5	0.5	0.5	1.9	0.5	1.9	1.8		
TOTAL AVAILABLE	538.4	544.5	525.3	541.5	2157.5	565.5	486.1	497.1	557.0	2072.3	493.7	527.8	509.4		
TOTAL NON-CELLULOSIC															
PRODUCTION	1056.4	1067.1	1064.2	1094.6	4282.3	1105.4	949.5	959.4	1113.9	4128.2	1084.0	1116.0	1051.3		
SHIPMENTS DOMESTIC	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1	914.3	818.6		
EXPORT	144.6	124.8	153.0	171.8	594.2	145.6	161.6	192.0	190.6	688.3	191.8	206.9	209.0		
TOTAL	1077.1	1080.8	1057.2	1091.6	4307.7	1071.1	960.6	998.3	1142.5	4172.3	1051.9	1121.2	1027.6		
ENDING STOCK	314.8	301.1	308.1	311.1		345.4	324.3	285.4	287.0		318.1	312.9	336.6		
DOMESTIC SHIPMENTS	932.5	957.0	904.2	919.8	3713.5	925.5	799.0	806.3	951.7	3482.5	860.1	914.3	818.6		
IMPORTS FOR CONSUMPTION															
FIBERS ABOVE ^e	4.4	5.8	4.7	4.6	19.5	4.1	5.2	3.3	3.9	16.5	9.0	11.2	14.1		
OTHER N.C. STAPLE	4.2	5.8	3.9	3.9	15.8	3.9	3.4	3.1	4.2	14.6	2.4	3.3	4.0		
GROUPED FILAMENTS	1.0	1.5	1.5	1.4	5.0	1.0	1.5	0.6	1.0	4.5	1.5	2.0	2.1		
TOTAL IMPORTS	9.6	10.9	9.9	8.0	39.3	9.0	9.9	7.0	9.1	35.6	12.7	16.5	19.2		
TOTAL AVAILABLE	942.1	967.9	914.1	928.7	3752.8	945.1	808.0	813.3	960.8	3518.1	872.8	940.8	837.8		

(Continued from page 200)

Output of textile glass fiber during the latest quarter totaled 280.6 million pounds, an increase of 8% over second quarter 1981 production of 260.2 million pounds and 53% above the production level of the corresponding 1980 quarter.

THIRD QUARTER SHIPMENTS DOWN 8½%

Shipments of man made fibers (except acetate staple +tow & rayon, saran and spandex yarn+monofilaments) totaled 2,385.6 million pounds during the third quarter this year, a decrease of 8½% from the 2,612.7 million pounds delivered during the previous quarter, but 6% above third quarter 1980 shipments.

July-September 1981 deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were 930.3 million pounds, 8% less than the 1,011.8 million pounds shipped during the second quarter but 5% more than deliveries during the third quarter of 1980.

Non-cellulosic staple+tow shipments during the latest quarter totaled 1,027.6 million pounds, 8½% less than second quarter 1981 deliveries but 3% above third quarter 1980 shipments.

Third quarter 1981 shipments of acetate yarn+monofilaments totaled 65.3 million pounds, a decrease of 17% from the previous quarter and 10% less than deliveries during the July-September quarter last year. Rayon staple+tow shipments during the latest quarter stood at 114.9 million pounds, 4% less than second quarter 1981 deliveries but 11% above third quarter 1980.

Textile glass fiber shipments during the July-September quarter of 1981 totaled 247.5 million pounds, a 12% decrease from second quarter shipments of 281.3 million pounds but 29% above third quarter 1980 deliveries of 192.5 million pounds.

U.S. EXPORTS

Third quarter exports of man-made fibers, as reported by the U.S. Census Bureau, totaled 378,223 thousand pounds, a decrease of 2% from the 385,143 thousand pounds exported during the second quarter 1981, but 12% above that exported during third quarter 1980. First nine months 1981 exports totaled 1,126,985 thousand pounds, an increase of 11% over the 1,019,622 thousand pounds exported during the corresponding nine months of 1980.

Cellulosic yarn exports during the third quarter of this year decreased 26% from second quarter 1981, to 4,462 thousand pounds, and were 33% below the 6,659 thousand pounds exported during the corresponding 1980 quarter. Cellulosic staple+tow exports during the July-September 1981 period, at 14,977 thousand pounds, decreased 8% from second quarter levels and were 24% less than the 19,717 thousand pounds exported during

July-September 1980.

Third quarter exports of non-cellulosic yarn+filaments increased 1½% to 119,715 thousand pounds from the April-June level of 118,054 thousand pounds and were 30% ahead of the corresponding 1980 quarter. Exports of textured polyester yarn for the first months of 1981 are running at about twice the level. Exports to the People's Republic of China accounted for most of this increase. See pages 156-157 of the September *Organon* issue for first half 1981 U.S. export country of destination.

Non-cellulosic staple+tow exports totaled 2,385.6 million pounds in the latest quarter, a decrease of 8½% from second quarter 1981 levels, but 13% above third quarter 1980 exports. Here again, increased exports of polyester staple+tow to the People's Republic of China accounted for most of the 1980 to 1981 increase.

Textile glass fiber exports, at 8,553 thousand pounds for the third quarter of 1981, declined ½% from the previous quarter and were 27% below the 11,719 thousand pounds exported during the same 1980 quarter.

EXPORTS, IMPORTS & BALANCE

U.S. exports of man-made fibers and products during the third quarter 1981 totaled 515.8 million pounds, a decrease of 7½% from second quarter exports of 554.9 million pounds, but 1% above third quarter 1980 exports.

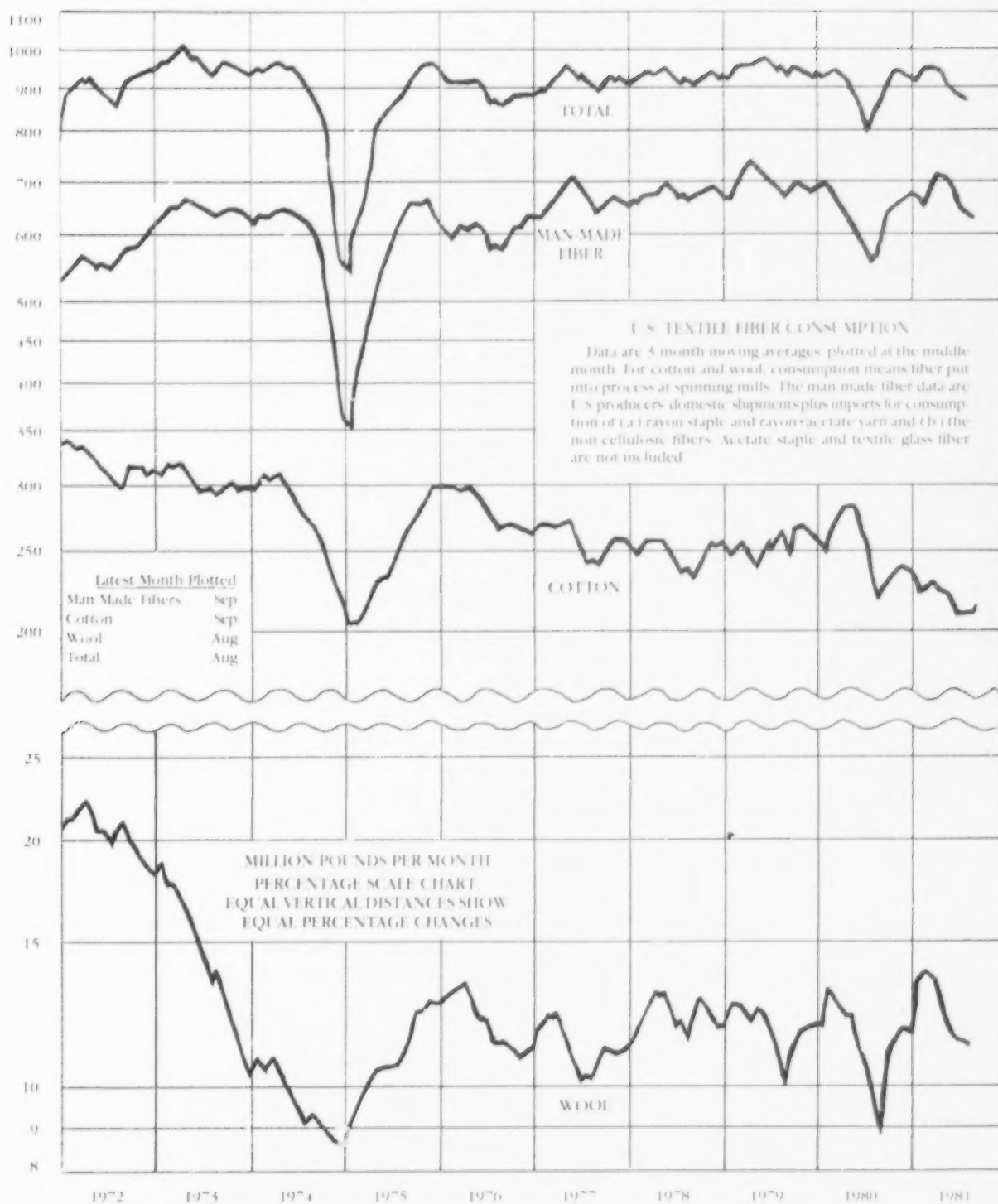
Third quarter 1981 imports of man-made fiber manufactures totaled 236.8 million pounds, an increase of 18% from the 201.2 million pounds imported during the previous quarter and 30% above third quarter 1980 imports.

Thus the U.S. had an **export** balance of 279.0 million pounds for man-made fibers and products during the third quarter 1981, a 22% decrease from the export balance of 357.0 million pounds during the second quarter 1981 and 15% below the export balance recorded during the corresponding 1980 quarter.

The decline in the third quarter export balance is attributable to increased man-made fiber apparel imports and a decline in exports of most man-made fiber manufactures. Thus, for third quarter 1981, the U.S. had an **import** balance of 46.6 million pounds as compared with an export balance of 20.3 million pounds the previous quarter and 25.5 million pounds in the third quarter 1980. The last **import** balance for man-made fiber manufactures was 5.5 million pounds recorded during third quarter 1979.

Cotton and wool manufactures continued their trend of recent quarters of ever increasing **import** balances. In the third quarter 1981 cotton manufactures had an **import** balance of 205.2 million pounds (up 63% from the previous quarter) and wool manufactures had

(Continued on page 205)



U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	2ND Q 1980			3RD Q 1980			4TH Q 1980			1ST Q 1981			2ND Q 1981			3RD Q 1981		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
RAYON+ACETATE																		
YARN+MONOFILAMENTS	2.5	0.4	4.8 E	1.8	0.7	4.9 E	2.0	7.1	5.1 E	4.4	8.4	5.0 E	2.6	0.0	3.4 E	2.6	4.5	1.9 E
STAPLE+TOW ^b	2.0	19.3	17.4 E	2.7	19.7	17.0 E	4.5	12.9	9.4 E	4.0	15.9	11.9 E	4.0	16.3	12.3 E	4.5	15.0	10.5 E
WASTE	0.1	1.8	1.7 E	0.1	1.7	1.6 E	0.1	0.8	0.7 E	0.1	0.7	0.6 E	0.1	0.8	0.7 E	0.2	0.4	0.2 E
SUBTOTAL ABOVE	4.6	27.4	22.8 E	4.6	28.1	23.5 E	6.6	20.8	14.2 E	8.5	25.0	17.5 E	6.7	23.1	16.4 E	7.3	19.9	12.6 E
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	5.4	92.5	87.1 E	5.6	92.4	86.7 E	4.8	92.1	88.3 E	5.4	115.7	112.3 E	5.7	118.0	112.3 E	5.2	119.7	114.5 E
STAPLE+TOW	9.8	190.9	181.1 E	7.1	182.0	174.9 E	9.1	195.8	186.7 E	12.8	187.0	174.2 E	16.4	207.5	191.1 E	19.1	205.1	186.0 E
WASTE	5.1	55.7	28.6 E	4.4	22.4	17.9 E	6.2	22.4	16.2 E	11.9	25.7	13.8 E	11.0	27.9	16.9 E	12.5	25.0	12.5 E
SUBTOTAL ABOVE	20.3	517.1	296.8 E	17.1	296.6	279.5 E	19.1	310.3	291.2 E	28.1	328.4	300.3 E	33.1	355.4	320.3 E	36.8	349.8	313.0 E
TOTAL FIBER ABOVE^c	24.9	544.5	319.6 E	21.7	324.7	303.0 E	24.7	331.1	306.4 E	35.6	353.4	317.8 E	39.8	376.5	336.7 E	44.1	369.7	325.6 E
MAN-MADE FIBER MANUFACTURES^d																		
SILVER TOPS & ROVING	0.9	4.3	2.4 E	1.0	2.4	1.4 E	0.2	4.4	4.2 E	1.2	2.3	1.1 E	0.7	2.8	2.1 E	1.1	3.2	2.1 E
SPIN YARNS	6.6	8.2	1.6 E	4.1	7.4	3.3 E	4.9	9.8	4.9 E	6.8	14.6	7.8 E	8.2	13.4	5.2 E	6.7	9.3	2.6 E
THIRLM & CRAFT YARNS	0.5	1.7	1.2 E	0.5	1.9	1.4 E	0.6	1.6	1.0 E	0.7	1.5	0.8 E	0.8	1.3	0.5 E	0.6	1.3	0.7 E
TIRE CORD & FABRIC	*	32.0	32.0 E	*	27.7	27.7 E	*	31.5	31.4 E	*	14.0	14.0 E	*	12.4	12.4 E	0.1	11.8	11.7 E
WOVEN FABRIC	18.0	65.7	45.7 E	17.2	60.3	43.1 E	15.8	70.0	54.2 E	21.4	57.3	35.9 E	25.7	61.5	35.8 E	26.0	45.4	19.4 E
KNIT FABRIC	1.4	5.9	4.5 E	1.6	5.8	4.2 E	1.5	6.4	4.8 E	0.6	5.7	5.1 E	0.5	7.4	6.8 E	0.5	4.9	4.4 E
NARROW FABRIC	2.1	7.8	5.7 E	1.9	6.7	4.8 E	1.6	6.1	4.5 E	1.9	6.2	4.3 E	2.4	6.9	4.5 E	2.3	6.4	4.1 E
APPAREL KNIT	50.3			61.9			59.7			32.8			47.1			60.7		
NOT KNIT	46.4			58.8			46.8			50.5			61.9			78.4		
HOME FURNISHINGS		41.3			25.9			29.0			22.8			22.1			20.4	
OTHER	13.8	17.0	3.2 E	13.8	15.3	1.5 E	13.5	15.3	1.8 E	13.2	16.6	3.4 E	14.1	18.9	4.8 E	16.3	15.0	1.3 E
TOTAL MANUFACTURES	140.0	204.7	64.7 E	164.0	185.5	21.5 E	124.7	205.2	80.5 E	129.1	174.0	44.9 E	161.4	181.7	20.3 E	192.7	146.1	46.6 E
TOTAL MAN-MADE FIBER & MANUFACTURES	164.9	549.2	384.3 E	181.7	510.2	324.5 E	149.4	536.3	386.9 E	164.7	527.4	362.7 E	201.2	558.2	357.0 E	236.8	515.8	279.0 E
COTTON MANUFACTURES^e	217.1	139.9	77.2 E	222.9	125.5	97.4 E	173.6	116.9	56.7 E	237.3	103.1	134.2 E	231.3	105.6	125.7 E	285.0	79.8	205.2 E
WOOL MANUFACTURES^f	27.4	8.2	19.2 E	32.1	6.4	25.7 E	21.6	5.7	15.9 E	23.5	3.5	20.0 E	29.2	3.5	25.7 E	36.5	2.7	33.8 E

SOURCES: The man made fiber import and export data are from the U.S. Bureau of the Census.

The man made, cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man made fiber and manufactures import, export and balance data of this table cover the cellulosic and non cellulosic fibers only, textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man Made Fiber Above" on pages 205 and 207 herewith.

d. Man made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 *Organon* issue.

f. Raw wool content. The data differ from those on page 37 of the March *Organon* issue to the extent that noils and waste are included here.

U.S. EXPORTS OF MAN-MADE FIBERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980					1981				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON+ACETATE											
FILAMENT YARN^a											
TEXTURED ^b	51010000	321	234	1509	521	2585	93	75	72		
OTHER ^b	51010020	6451	6040	5118	6551	24130	8191	5829	4286		
MONOFILAMENTS	50910110	89	32	9	19	149	47	30	9		
STRIPS	50912210	41	1	23	1	66	66	79	95		
SUBTOTAL ABOVE		6882	6297	6659	7092	26930	8397	6013	4462		
STABLE-TOW RAYON	50912222	16581	17378	18763	12095	64817	12222	14234	14369		
STABLE-ACETATE	50912219	2549	1940	954	812	6255	3692	2046	608		
SUBTOTAL ABOVE		19130	19318	19717	12907	71072	15914	16280	14977		
WASH-ADVANCED & NOT ADVANCED	50912000	1842	1773	1726	749	6090	693	795	416		
NON-CELLULOSIC FIBERS											
FILAMENT YARN^a											
NYLON-TEXTURED	51010008 & 0009	10848	10303	15008	17014	53773	21787	17478	17656		
HIGH TENACITY ^c	51010027	13767	14502	13848	15693	57804	18138	17544	11095		
OTHER	51010020	5848	6514	6218	6387	24967	5461	4325	6280		
POLYESTER-TEXTURED	51010010	22506	20472	30889	31953	114910	18758	58681	65407		
HIGH TENACITY ^c	51010042	7995	6763	9883	4561	23202	4870	5464	6299		
OTHER	51010034	1103	1886	2329	2175	7493	3380	3663	3117		
OTHER-TEXTURED	51010014	4086	5077	5509	4243	19005	4174	4082	2346		
OLEFIN	51010000	389	796	683	652	2520	741	519	838		
OTHER	51010044	1360	1574	1266	1065	5265	1566	1452	1183		
MONOFILAMENTS-ALL DENIERS											
NYLON	50910120	4564	5002	3647	2294	15507	2387	1935	1879		
POLYESTER ^c	50910140	3500	6050	5678	4757	18985	2816	1767	1362		
OTHER	50910170	1762	3233	2114	1556	8665	1289	1314	2614		
STRIPS	50912210 & 2270	715	1328	598	786	3427	1366	1530	749		
SUBTOTAL ABOVE		78327	92500	92360	92136	355323	115733	118054	119715		
STABLE-NYLON	50912240	8263	5805	7693	7545	29306	9443	7030	5848		
POLYESTER	50912242	84380	117941	117965	127004	447290	108693	138242	144558		
MARLE	50912245	39136	30799	34986	40251	145172	41711	40137	39084		
OLEFIN	50912246	866	861	523	1025	3275	664	431	270		
OTHER	50912247	4643	5582	3278	4248	17751	5015	5800	3637		
GROUPED FILAMENTS											
NYLON	50912260	1726	2714	1005	1837	7282	1724	763	746		
POLYESTER ^d	50912263	16041	19690	10025	9124	54880	9508	6706	5802		
MARLE	50912265 & 3255	8704	7531	6487	4795	27517	10076	8360	7144		
SUBTOTAL ABOVE		163759	190923	181962	195829	732473	187034	207469	205089		
WASH-ADVANCED & NOT ADVANCED											
NYLON	50912020	3629	4563	4018	2319	14520	3470	4141	3402		
POLYESTER	50912040	22134	17087	10260	11672	61153	11606	13086	12419		
MARLE	50912049	511	511	469	861	2352	1874	1531	573		
OTHER	50912060	11862	11496	7522	7515	38395	8718	9163	8717		
TOTAL MAN-MADE FIBER ABOVE		308067	344468	324693	331080	1308308	353439	376532	369670		
TEXTILE GLASS FIBER	50912700 & 9700	15164	15511	11719	12013	54407	10180	8611	8553		
GRAND TOTAL ABOVE		323231	359979	336412	343093	1362715	363619	385143	378223		

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and

cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

(Continued from page 202)

import balance of 33.8 million pounds (up 32% from the previous quarter). This **import** balance for cotton manufactures is the highest quarterly balance recorded since the quarterly totals were published in the *Organon* beginning with the year 1974. The **import** balance for wool manufactures was the highest since third quarter

1978.

ANNUAL BOUND *Organon* ISSUE

A limited number of bound copies of the 1981 *Textile Organon*, Volume LII, will be available at \$50.00 each (postpaid). Remittance with the order please.

**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS**

ITEM	1981									9 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS											
CANADA	518	125	8	1	12	5	0	15	4	688	582
MEXICO	101	79	105	41	191	100	81	240	121	1249	1187
BULGARIA	0	50	25	0	70	0	25	0	0	174	0
WEST GERMANY	242	200	555	200	630	170	115	557	306	2883	801
NETHERLANDS	240	505	555	295	202	194	572	530	264	2897	1154
SPAIN	142	0	0	0	41	0	40	0	0	223	39
UNITED KINGDOM	1	10	0	0	41	0	50	75	14	235	1577
JAPAN	64	0	0	0	55	80	0	28	14	175	605
SOUTH KOREA	1	0	0	0	40	0	0	0	60	141	120
ALL OTHER COUNTRIES ^a	19	4	0	0	40	20	5	88	0	125	234
TOTAL R+A YARN	1184	1151	1084	581	1374	600	726	1087	803	8590	6298
RAYON+ACETATE STAPLE+TOW											
CANADA	603	374	456	451	421	592	411	405	407	3924	1085
ALSTRIA	741	113	160	505	798	250	405	508	526	5688	1055
FRANCE	18	85	40	45	0	45	0	0	0	228	100
WEST GERMANY	0	0	85	0	0	0	0	45	2	150	140
ITALY	0	12	0	0	40	10	105	115	0	284	0
NETHERLANDS	552	254	189	0	187	227	227	298	224	1915	2575
UNITED KINGDOM	226	76	7	157	205	235	549	75	122	1450	1245
JAPAN	50	147	74	118	59	88	105	87	60	828	789
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0	96	98	52
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449	1437	12543	6827
NON-CELLULOSIC YARN, MONOFIL & STRIPS											
CANADA	50	98	4	579	415	280	580	205	55	2155	2219
MEXICO	14	20	12	15	49	9	5	99	2	218	25
ALSTRIA	0	0	0	64	0	0	41	10	0	115	1
FRANCE	94	140	205	210	166	169	255	125	101	1575	592
WEST GERMANY	250	582	275	501	420	553	520	508	552	5575	2271
ITALY	52	152	45	0	108	79	0	555	227	980	116
NETHERLANDS	0	1	0	0	49	28	0	42	0	129	122
SPAIN	0	0	0	0	0	0	0	179	0	240	62
UNITED KINGDOM	57	114	47	5	5	1	4	15	14	250	598
JAPAN	500	671	457	776	602	745	775	601	560	5245	9094
SOUTH KOREA	5	40	5	5	45	2	1	5	5	99	0
ALL OTHER COUNTRIES ^c	5	0	14	0	53	10	52	5	91	254	647
TOTAL N.C. YARN	892	1610	949	2087	2055	1614	1818	2183	1205	14393	15754
NON-CELLULOSIC STAPLE+TOW											
CANADA	428	350	449	551	714	425	1250	649	696	5892	1851
MEXICO	190	28	97	510	695	217	141	584	264	2524	24
BULGARIA	0	180	0	152	70	2	5	46	51	426	5
FRANCE	44	707	198	508	554	254	528	108	472	5502	45
WEST GERMANY	541	1965	1625	2255	1644	1545	2586	2455	732	14922	7652
IRELAND	0	50	0	0	0	0	39	0	59	154	1
ITALY	7	815	616	425	717	164	1426	669	1202	6017	1021
NETHERLANDS	0	49	44	80	35	15	15	98	47	565	4
POLAND	44	58	0	0	89	0	0	5	0	174	54
ROMANIA	0	0	152	84	28	0	25	0	71	348	479
UNITED KINGDOM	208	508	520	175	264	818	715	607	506	5917	1775
EGYPT	0	0	0	0	0	0	0	0	555	555	0
JAPAN	828	555	907	995	545	478	554	288	202	5768	4852
TAIWAN	421	745	588	875	585	866	198	852	1291	6522	8051
ALL OTHER COUNTRIES ^d	0	15	0	16	1	54	25	72	26	205	117
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259	5702	48337	26486

Other countries supplying 1981 poundages are:

a. Austria 41, Greece 39, Italy 5, Sweden 2, Taiwan 19 & Yugoslavia 21

b. Belgium 96, Mexico 1 & Venezuela 1

c. Australia 1, Belgium 65, Denmark 45, Hong Kong 2

Ireland 51, Portugal 8, Sweden 10, Switzerland 71 & Taiwan 5

d. Austria 42, Brazil 1, Costa Rica 40, Denmark 5, Hong Kong 15, Israel 51, Portugal 16, South Africa 23 & Switzerland 56

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1-1-78	1981									9 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	1981	1980
RAYON+ACETATE												
YARN, SINGLES												
TEXTURED	5101100 & 1200	1	10	0	242	8	0	0		0	260	849
OTHER	5101100 & 1200 ^a	1182	1159	1084	599	1370	600	712	1072	803	8301	5454
MONOFILAMENTS	8000501 & 0601	1	2	0	0	0	0	0	0	0	4	0
STRIPS, 1/16" & 1/8"	8002400 ^a	0	0	0	0	0	0	5	15	0	20	0
SUBTOTAL ABOVE		1184	1151	1084	591	1374	600	726	1087	803	8590	6298
STAPLE	8001301 & 1325	1027	1000	927	887	1442	990	1311	1317	1358	10865	5104
GROUDED FILAMENTS	8001301 & 1310	259	155	164	185	252	264	351	152	79	1078	1723
SUBTOTAL ABOVE		1866	1159	991	1072	1674	1253	1662	1449	1437	12543	6827
WASTE, ADVANCED & NOT ADVANCED	8001405 & 7510	57	7	57	0	35	40	65	40	40	307	220
NON-CELLULOSIC FIBERS												
YARN, SINGLES												
TEXTURED, NYLON	5101100 & 1200	197	217	215	580	507	375	471	159	176	2003	2155
POYESTER	5101100 & 1210	27	7	22	14	79	80	1	204	98	621	512
OTHER	5101100 & 1214	17	50	8	17	49	23	85	21	5	279	182
OTHER, NYLON	8101100 & 1210	204	525	127	542	487	354	317	410	458	3410	4070
POYESTER	8101100 & 1250	111	411	290	399	482	491	295	935	190	3611	5314
OTHER	8101100 & 1270 ^b	170	183	115	189	100	50	182	81	108	1245	1061
MONOFILAMENTS	8001200 & 0500 ^c	145	200	140	321	258	220	458	205	161	2175	3405
STRIPS, OTHER FIBER	8002100 & 2500 ^c	21	11	16	21	9	15	11	14	31	149	189
SUBTOTAL ABOVE		892	1610	949	2087	2035	1614	1818	2185	1205	13393	15754
STAPLE, NYLON	8001300	525	2680	1038	2533	2455	1574	4055	3238	2062	20826	1140
POYESTER	8001302	152	111	900	161	847	903	328	570	840	4164	1051
ACRYLIC	8001305	1009	1594	907	1201	1005	505	730	695	480	8252	10342
OTHER	8001306	5	0	504	1	5	71	473	70	125	1004	143
OTHER	8001355	409	961	173	1088	852	1281	350	1285	1000	8631	10375
GROUDED FILAMENTS												
NYLON	8001400 & 1310	198	50	68	137	155	190	500	23	18	1215	757
POYESTER	8001400 & 1310	0	42	0	0	44	90	18	30		224	117
ACRYLIC	8001400 & 1310	181	255	178	201	195	312	372	250	175	2215	2049
OTHER	8001405 & 1315	65	110	502	100	150	180	342	77	330	1746	532
SUBTOTAL ABOVE		2514	5815	4436	6078	5714	9638	7181	6259	5702	48337	26486
WASTE, NOT ADVANCED, NYLON	8001405	1598	1587	2822	1715	2134	1607	2230	2343	2417	18461	8085
POYESTER	8001400	1071	1810	1547	1005	1473	1321	1438	1409	1282	12350	5451
ACRYLIC	8001405	280	258	200	250	379	209	87	514	5	2245	1775
OTHER	8001400	32	203	203	328	127	331	190	340	15	1835	711
NOHS & GARNETTED FIBERS	8001400 & 7000 ^d	0	0	0	0	0	0	29	28	0	57	4
OTHER WASTE, ADVANCED	8007525, 7535	110	63	5	35	2	6	23	58	31	340	455
TOTAL MAN-MADE ABOVE		9602	13643	12332	13135	14947	11679	15468	15717	12935	119454	70952
OTHER MAN-MADE FIBER TOPS, YARN & THREAD												
YARN, FIBER												
TEXTURED, CELLULOSIC	5101100	0		24	0	0	0	0	0	0	24	0
NON-CELLULOSIC	5101015 ^d & 1100 ^e	268	124	213	313	804	265	342	445	143	2367	708
OTHER, CELLULOSIC	5101080 & 1135 ^f	16		0		0	0	0	1	0	17	97
NON-CELLULOSIC	5101080 & 1070 ^g	20	27	26	69	20	3	125	14	15	293	345
SPUN YARN, CELLULOSIC	5101005 & 4090 ^h	10	25	24	37	24	34	190	58		453	492
OTHER	5101015 & 4020 ⁱ	1762	1354	1794	1740	2164	1512	1542	1314	1258	14340	15198
OTHER YARNS, NES, INCL. CHENILLE	5101020, 8000	552	109	261	415	1090	433	361	350	374	3270	1857
HANDWORK YARNS & SEWING THREAD	5101000, 0140	247	230	188	190	262	292	220	208	195	2038	1689
SILVER TOPS & ROVING	8001000	388	473	322	262	173	245	370	595	115	2043	2484
TEXTILE GLASS FIBER	8002800 & 2900 ^j	1150	441	1017	551	643	1485	1575	3434	2410	12742	5693
GRAND TOTAL ABOVE		13821	16526	16231	16702	19219	15739	20098	22104	17501	157941	99585

SOURCE: U.S. Census Bureau

NES: Not elsewhere specified

^a These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

^b Also includes 310.0510 & 0610

^c Also includes 310.0530, 0550, 0630 & 0650

^d Also includes 309.0340, 0365, 0500, 0630, 0640 & 0665

^e There may be some acetate yarn in these data, but the Census

figures do not permit a segregation

^f Also includes 310.1110 & 1114

^g Also includes 310.2010 & 2110

^h Also includes 310.1150, 1155, 1170, 2030, 2050, 2130 & 2150

ⁱ Also includes 310.5005 & 5030

^j Also includes: 310.4040, 4047, 4050, 5015, 5040, 5047, 5049 & 5051

^k Chiefly rayon; Also includes 309.9800 & 9800

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
MAN-MADE FIBER DATA^c														
YARN*MONOFILAMENTS^d														
TOTAL SHIPMENTS^b														
ACETATE	20.9	21.6	21.5	27.1	26.4	25.2	24.6	19.9	20.8	19.5			227.5	258.7
NYLON ^e INDUSTRIAL ^f	34.5	34.4	37.2	35.9	32.3	34.3	30.6	45.7	45.0	31.8			341.7	368.3
LOW-DENIER INDUSTRIAL ^g	3.0	3.0	3.8	2.8	2.3	3.3	2.5	2.9	3.5	2.7			29.8	30.0
CARPET	67.1	65.8	65.3	73.4	65.3	61.3	56.8	52.9	48.1	40.7			594.7	611.6
TEXTILE	33.7	36.6	38.4	37.3	36.1	37.3	31.7	33.8	35.8	33.0			354.7	366.3
POLYESTER INDUSTRIAL ^f	25.5	24.3	27.3	29.0	24.7	25.5	26.9	27.3	26.2	27.1			263.8	240.7
LOW-DENIER INDUSTRIAL ^g	2.1	2.1	2.5	2.9	2.7	2.5	2.5	1.9	2.3	2.4			23.9	24.9
TEXTILE	94.8	96.0	111.3	123.6	106.4	108.6	102.1	107.3	103.9	98.4			1052.4	970.9
OLEFIN ^h	56.0	55.8	57.4	55.5	56.8	52.0	53.5	54.2	51.9	50.1			543.2	520.1
TOTAL NON-CELLULOSIC ABOVEⁱ	316.7	316.0	343.2	360.3	326.6	324.8	306.6	317.0	306.7	286.2			3204.2	3132.8
STAPLE*LOW-DENIER FIBER^j														
RAYON	40.9	35.4	37.9	41.4	40.8	37.5	39.4	36.8	38.7	38.7			387.5	381.0
NYLON ^e	70.7	67.5	73.9	80.0	74.8	69.2	62.2	52.8	44.9	41.8			637.8	591.4
ACRYLIC*MODACRYLIC	59.3	62.2	65.8	65.3	61.9	60.1	51.9	59.8	54.3	53.3			591.9	646.6
POLYESTER	208.6	211.1	202.5	243.6	218.6	211.9	212.8	232.9	223.4	214.4			2179.8	2076.2
OLEFIN*VINYLON	10.8	10.3	11.2	11.7	12.4	11.7	10.7	11.3	10.6	12.2			112.0	97.0
TOTAL NON-CELLULOSIC ABOVE	349.4	351.1	351.4	400.6	367.7	352.9	337.6	356.8	333.2	321.7			3522.3	3411.2
END-OF-MONTH STOCK														
ACETATE	17.0	15.4	15.8	13.5	11.6	12.1	11.4	13.7	12.6	12.4			12.4	16.6
NYLON ^e INDUSTRIAL ^f	37.5	37.9	35.7	36.7	32.5	31.2	33.8	38.3	37.2	38.7			38.7	25.6
LOW-DENIER INDUSTRIAL ^g	3.9	3.2	3.1	3.5	3.4	3.2	3.6	3.8	3.6	3.9			3.9	3.1
CARPET	37.7	38.2	38.3	33.4	36.4	39.5	37.9	64.9	72.4	80.4			80.4	34.3
TEXTILE	42.8	43.1	41.8	41.7	43.6	41.4	45.1	43.5	45.7	47.6			47.6	45.4
POLYESTER INDUSTRIAL ^f	23.7	23.1	21.3	20.9	23.7	24.7	24.1	22.7	22.0	20.2			20.2	22.2
LOW-DENIER INDUSTRIAL ^g	3.6	3.4	3.5	3.6	3.3	3.6	3.6	3.3	2.7	3.1			3.1	4.1
TEXTILE	100.2	104.1	87.3	67.5	72.5	76.0	89.4	84.1	84.0	95.3			95.3	92.7
OLEFIN ^h	63.9	62.3	61.0	60.4	58.3	62.3	61.8	62.2	66.2	64.8			64.8	70.0
TOTAL NON-CELLULOSIC ABOVEⁱ	313.3	315.3	292.6	267.7	283.7	291.9	319.3	323.8	334.4	354.1			354.1	297.4
STAPLE*LOW-DENIER FIBER^j														
RAYON	24.2	25.1	29.3	28.1	25.4	23.7	23.2	25.7	27.3	37.3			37.3	31.3
NYLON ^e	33.3	37.4	47.3	33.4	40.1	48.5	61.0	71.8	72.4	73.4			73.4	33.3
ACRYLIC*MODACRYLIC	76.5	76.3	74.3	68.5	67.1	63.8	67.8	64.2	64.6	66.7			66.7	65.0
POLYESTER	174.2	182.3	190.3	178.5	181.7	185.1	195.4	177.4	179.6	180.1			180.1	154.8
OLEFIN*VINYLON	16.6	16.9	16.2	15.3	15.2	15.5	16.7	17.9	20.0	21.0			21.0	18.0
TOTAL NON-CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.9	340.9	331.3	336.6	341.2			341.2	271.1
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.0	12.1	14.6	13.2	11.5	13.0	9.3	12.3	11.7				108.7	94.9
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.8	0.7	1.1	1.1				7.8	7.9
TOTAL RAW WOOL	11.8	12.9	15.5	14.0	12.3	13.8	10.0	13.4	12.8				116.5	102.8
RAW COTTON	217.4	245.4	247.1	248.1	220.8	244.4	193.1	235.7	237.7	247.7			2327.4	2539.6

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*low data are available annually only; see page 21 of the February issue.

Textile Organon

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MONTHLY REVIEW

HIGHLIGHTS

As of November 1981, the U.S. man made fiber industry had the capacity to produce 12.175 million pounds of fiber. This divides as: cellulosic 898 million pounds; non cellulosic 9,716 million pounds and textile glass fiber 1,561 million pounds.

By November 1983, cellulosic capacity is projected to be 895 million pounds, non cellulosic fiber 10,123 million pounds and textile glass fiber 1,618 million pounds for a total of 12,636 million pounds and an annual growth rate of 1.9%.

NOVEMBER SHIPMENTS OFF 3½%

Shipments of non cellulosic fibers (except saran and spandex) totaled 585.9 million pounds during November, a decline of 3½% from October deliveries of 607.9 million pounds. November shipments of non-cellulosic yarn+monofilaments (except saran and spandex) were 279.0 million pounds, a decline of 2½% from October deliveries of 286.2 million pounds. For non-cellulosic staple+tow, November shipments fell 4½% from October levels to 306.9 million pounds.

However, for the first eleven months of 1981, non-cellulosic fiber shipments (except saran and spandex) totaled 7,312.5 million pounds, an increase of 1% over the 7,234.3 million pounds delivered during January-November 1980. Year-to-date shipments of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 3,483.2 million pounds, ½% above the 3,465.8 million pounds shipped during the corresponding 1980 period. January-November deliveries of non-cellulosic staple+tow totaled 3,829.3 million pounds, a 1½% increase over the corresponding period a year ago.

November shipments of nylon carpet yarn and nylon staple (predominantly carpet) were at their lowest levels since March 1975.

NOVEMBER AND OCTOBER SHIPMENTS COMPARED

Following is a comparison of total November shipments of non cellulosic yarn+monofilaments (except saran and spandex) with October (million pounds), and the percentage change, respectively: nylon industrial yarn 33.4 & 31.8 & +5%; low denier industrial 2.7 & 2.7 & no change; carpet 39.4 & 40.7 & -3%; textile 32.5 & 33.0 & -1½%; polyester industrial yarn 26.2 & 27.1 & -3½%; low denier industrial 2.2 & 2.4 & -8½%; textile 91.6 & 98.4 & -7%; olefin 51.0 & 50.1 & +2% and the total of these fibers 279.0 & 286.2 & -2½%.

For non-cellulosic staple+tow, the corresponding data are: nylon 40.9 & 41.8 & -2%; acrylic+modacrylic 49.8 & 53.3 & -6½%; polyester 206.2 & 214.4 & -4%; olefin+vinylon 10.0 & 12.2 & -18% and the total 306.9 & 321.7 & -4½%.

CELLULOSIC SHIPMENTS DOWN 7%

November shipments of acetate yarn+monofilaments and rayon staple+tow totaled 54.2 million pounds, a decrease of 7% from the 58.2 million pounds delivered during October. For the first eleven months of 1981, shipments totaled 669.2 million pounds, 4% below the 698.8 million pounds delivered during the corresponding 1980 period.

Acetate yarn+monofilament deliveries during November totaled 17.6 million pounds, their low for the year and 9½% below October shipments of 19.5 million pounds. For the first eleven months of 1981, shipments totaled 245.1 million pounds, 13% below the 280.5 million pounds shipped during the corresponding period of 1980.

November deliveries of rayon staple+tow totaled 36.6 million pounds, a decrease of 5½% from October shipments of 38.7 million pounds. However, January-November 1981 shipments of 424.1 million pounds

were 1½% above the 418.3 million pounds delivered during the corresponding 1980 period.

COTTON CONSUMPTION SLUMPS IN NOVEMBER

Preliminary figures from the Census Bureau put mill consumption of cotton at 202.9 million pounds for November, 18% less than the 246.7 million pounds mills consumed in October. Moreover, for the first eleven months of 1981, mill consumption of cotton totaled 2,529.3 million pounds, an 11% decrease from consumption during the corresponding 1980 period.

Further, TEB estimates that for 1981, mill consumption of cotton will total some 2,750 million pounds, the lowest level since 1935 when some 2,755 million pounds of cotton were consumed.

THE WOOL SITUATION

Our annual review of the world and the U.S. wool situation is presented in the following article and tables. Unless otherwise indicated, all data are on a seasonal basis. In the Northern Hemisphere countries, the season coincides with the calendar year. In the South American countries, the season runs from October first through September thirtieth, while in other Southern Hemisphere countries, e.g., Australia, South Africa and New Zealand, the season extends from July first through June thirtieth. Seasonal data are identified by the first year of the season concerned, e.g., the Australian season running from July first, 1980, to June thirtieth, 1981, is referred to as 1980.

WORLD WOOL PRODUCTION

From reports of The Commonwealth Secretariat (London), it is estimated that world wool production during the 1981 season (1981/1982) will total 6,307 million pounds (greasy basis), or some 42 million pounds more than the previous season.

The table on page 211 opposite shows the annual production of raw wool (on a greasy basis) in the principal wool growing countries of the world from 1965 through the current season. In addition, certain 5 year averages are also shown.

Australia remains the largest producer of wool with some 25% of the world total. 1981 production is expected to remain unchanged at 1,545 million pounds (greasy basis). The second largest producer of wool is the U.S.S.R. (see text table following) with 1,005 million pounds (greasy basis), a decline of 1½% from the previous season. New Zealand is the third largest wool producing country with 849 million pounds (greasy basis) predicted for the 1981 season.

These three countries together represent some 54% of the world wool production. Including the rest of Eastern

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Textile Organon

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WORLD RAW WOOL PRODUCTION BY THE PRINCIPAL PRODUCING COUNTRIES^a

MILLION POUNDS, GREASY BASIS & (1977=100)

YEAR ^b	AUSTRALIA		NEW ZEALAND		SOUTH AFRICA ^c		ARGENTINA		URUGUAY		UNITED STATES		UNITED KINGDOM		TURKEY		E. EUROPE & CHINA ^d		ALL OTHERS ^e		WORLD TOTAL	
	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%	LBS	%
1935-39 ^f	1,018.26.3		409.80.0		263.6.8		477.9.8		118.3.1		193.11.4		111.2.9		60.1.3		204.7.6		875.22.6		6863.100	
1940-44 ^f	1,129.27.4		544.8.3		254.6.5		500.12.1		147.3.3		492.11.2		102.2.5		68.1.7		506.7.9		821.19.0		4,125.100	
1945-49 ^f	1,024.26.9		470.9.7		222.5.8		452.11.9		161.4.2		552.8.7		85.2.2		71.1.0		410.10.8		684.19.0		5,810.100	
1950-54 ^f	1,202.27.6		419.9.6		272.6.3		401.9.2		193.4.4		289.6.6		96.2.2		76.1.7		667.15.3		745.17.1		4,500.100	
1955-59 ^f	1,547.29.5		513.9.8		413.6.0		406.7.8		184.3.5		305.5.9		113.2.2		90.1.7		945.18.2		800.13.4		5,206.100	
1960-64 ^f	1,715.30.2		607.10.7		404.5.4		413.7.3		187.3.3		295.5.2		127.2.2		98.1.7		1,152.20.0		790.14.0		5,672.100	
1965-69 ^f	1,896.30.7		717.12.0		510.5.2		454.7.6		181.3.0		222.3.7		125.2.1		100.1.7		1,210.20.3		817.13.7		5,976.100	
1970-74 ^f	1,764.30.6		681.11.8		246.4.2		410.7.1		158.2.4		169.2.9		100.1.8		110.1.0		1,399.23.2		815.14.1		5,776.100	
1975-79 ^f	1,567.26.5		707.12.0		240.3.9		485.6.5		145.2.5		113.1.9		106.1.8		122.2.1		1,563.26.3		975.16.5		5,899.100	
1981	1,665.29.0		695.12.1		429.5.7		450.7.5		183.3.2		241.4.2		129.2.3		95.1.7		1,158.19.9		826.14.4		5,720.100	
1986	1,762.30.1		709.12.1		292.5.0		441.7.5		178.3.0		256.4.0		152.2.3		97.1.7		1,178.20.1		828.14.2		5,853.100	
1987	1,770.29.5		728.12.2		304.5.1		494.8.2		185.3.1		227.3.8		128.2.1		101.1.7		1,259.20.7		818.13.0		5,904.100	
1988	1,949.31.0		752.11.9		313.5.1		661.7.5		181.2.9		211.3.4		119.1.9		100.1.7		1,292.20.9		811.13.1		6,175.100	
1989	2,045.33.2		724.11.8		310.5.0		645.7.3		176.2.9		194.3.2		100.1.7		105.1.7		1,245.20.1		804.13.1		6,151.100	
1990	1,994.32.2		746.12.1		271.4.4		641.7.2		172.2.8		187.3.1		101.1.7		104.1.7		1,403.21.3		828.13.5		6,107.100	
1991	1,941.32.5		710.11.9		258.4.3		617.7.0		119.2.0		181.3.0		104.1.7		100.1.7		1,427.22.2		809.13.6		5,972.100	
1992	1,620.29.1		681.12.2		246.4.2		490.7.0		152.2.4		176.3.2		100.1.9		110.1.0		1,510.23.6		794.14.4		5,560.100	
1993	1,545.28.2		628.11.5		241.4.2		497.7.3		132.2.4		150.2.9		108.2.0		115.2.1		1,545.24.5		816.14.9		5,174.100	
1994	1,488.30.3		648.11.2		248.4.1		606.7.0		141.2.5		143.2.5		110.1.9		115.2.0		1,415.24.5		809.14.9		5,771.100	
1995	1,662.28.8		698.11.9		248.4.1		614.7.2		152.2.6		128.2.2		108.1.9		117.2.0		1,439.24.8		847.14.5		5,776.100	
1996	1,550.27.0		668.11.7		227.4.0		498.6.8		141.2.5		117.2.0		100.1.8		119.2.1		1,445.25.0		983.17.1		5,744.100	
1997	1,493.25.0		686.11.8		234.4.0		470.6.5		137.2.3		112.1.9		101.1.7		121.2.1		1,585.27.1		992.17.0		5,838.100	
1998	1,556.26.0		708.11.8		225.3.8		477.6.3		139.2.3		104.1.7		108.1.8		126.2.3		1,620.27.1		1,020.17.1		5,983.100	
1999	1,572.25.5		787.12.8		227.3.7		466.5.9		154.2.5		106.1.7		106.1.7		126.2.3		1,678.27.2		1,042.16.9		6,166.100	
1980	1,545.24.5		840.13.4		231.3.7		450.5.7		163.2.6		100.1.7		112.1.8		126.2.0		1,715.27.3		1,070.17.1		6,265.100	
1981*	1,545.24.5		840.13.5		231.3.7		460.5.8		170.2.8		110.1.7		110.1.7		128.2.0		1,715.27.2		1,070.17.1		6,307.100	

SOURCE: The Commonwealth Secretariat (London).

a. Apparel plus carpet class shorn wool, as well as pulled wool and wool on skins, mostly at the shorn equivalent.

b. Calendar years for Northern Hemisphere nations; season beginning July first or October first for Southern Hemisphere countries. See text page 210.

c. Excludes Lesotho and South West Africa.

d. Includes USSR & Romania only in 1945 and prior years. For 1990 forward.

Albania, Bulgaria, People's Republic of China, Czechoslovakia, East Germany, Hungary, Outer Mongolia & Tibet, Poland and Yugoslavia are also included.

e. Also includes China and Eastern European countries, except USSR & Romania, in 1945 and prior years.

f. Five year averages.

g. Preliminary estimates.

Europe and the People's Republic of China brings this percentage up to 65% of the world wool output. In 1935-39 these countries accounted for only 42% of the world total. Eastern Europe and the People's Republic of China in particular have greatly expanded their share of world production, going from less than 8% in the 1935-39 period to 27% today. The increase in New Zealand's share has been significant, but not as impressive as that of Eastern Europe and the People's Republic of China. Australia, still the largest producing country, has maintained its share over the period. The most dramatic drop in share has occurred in the United States, which at one

time accounted for better than 11% of the total, but is now down to 2%.

World production data on cotton, wool (scoured basis) and the man-made fibers (except olefin and textile glass fiber) for 1974 through 1980 were presented on page 81 of the June *Organon* issue. Changes in that table for cotton are indicated in the page 165 table of the October *Organon*. During the 1980 season, world wool production represented 5½% of the 3 fiber total, with cotton being 47½% and the man-made fibers 47%.

U.S. WOOL PRODUCTION

It is estimated that U.S. wool production in 1981 will be about 110 million pounds (greasy basis), up 4% from the 106 million pounds produced in the past two years.

Of this year's total, shorn wool output is placed at about 108.5 million pounds, the largest since 1977. The yield per fleece in 1981 was 8.13 pounds (greasy basis) as compared with 7.96 pounds per fleece in 1980. The balance of 1.5 million pounds this year will be pulled wool. All domestic production is apparel class. The recent stabilization in U.S. wool output results from a halt to the long term decline in the sheep population in this coun-

EASTERN EUROPE & PEOPLE'S REPUBLIC OF CHINA DETAIL

	U.S.S.R.	PEOPLE'S REPUBLIC OF CHINA	OTHER EAST EUROPE
1977	1012	291	280
1978	1040	300	290
1979	1041	337	400
1980	1019	388	406
1981*	1005	397	511

* estimated

DISAPPEARANCE OF WOOL IN THE U.S.^a

MILLION POUNDS, SCOURED BASIS

ITEM	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981 ^b
MILL CONSUMPTION OF WOOL														
WOOL CLASS: FINEST FIBER	197.3 (26.7)	200.7 (26.3)	200.9 (26.4)	191.8 (22.7)	198.7 (23.8)	141.1 (10.7)	80.1 (11.8)	90.8 (10.6)	92.8 (98.4)	87.0 (84.2)	101.2 (87.4)	102.1 (82.4)	77.4 (87.4)	98.0 (76.0)
TOTAL WOOL CLASS	287.0	261.2	196.7	144.2	170.5	140.7	97.9	116.1	140.7	121.2	128.8	124.5	124.7	141.0
CARPET CLASS: TUBBERG	91.5	95.7	76.6	75.1	76.4	61.4	18.6	15.9	15.2	12.7	15.1	9.9	9.2	9.0
SUBTOTAL ABOVE^c	378.5	356.9	273.3	219.3	246.9	182.1	116.5	132.0	155.9	133.9	143.9	134.4	133.9	150.0
CONSUMPTION ON THE COTTON SPINNING SYSTEM ^d	5.0	4.5	4.4	5.1	2.0	1.5	1.0	0.8	5.0	4.1	5.0	2.5	3.8	5.0
TOTAL RAW WOOL	383.5	361.4	277.7	224.4	248.9	183.6	117.5	132.8	160.9	138.0	148.9	136.9	137.7	155.0
REWORKED: CARPET	5.8	5.4	4.5	2.6	2.8	1.7	0.8	0.7						
OTHER	24.1	28.2	24.8	19.5	17.0	15.8	15.9	14.1	14.8	16.7	16.8	17.0	19.5	10.0
REUSED: OTHER	4.7	5.1	5.0	2.6	2.6	2.5	1.9							
TOTAL ABOVE	416.9	395.9	308.9	247.1	271.3	203.4	136.1	147.6	163.7	154.7	161.4	153.9	148.2	163.0
WOOL CONTENT OF IMPORTS														
TOPS ^e	6.6	4.5	4.4	2.7	0.4	0.5	0.5	0.5	0.4	0.9	0.6	0.4	0.5	0.2
YARNS	10.9	8.6	8.1	7.7	6.5	4.9	5.4	4.1	5.4	5.8	5.5	4.8	4.9	4.1
CARPETS & RUGS	9.4	9.2	7.8	9.2	12.5	15.6	12.5	11.4	14.1	14.8	15.9	15.9	16.9	17.0
WOVEN FABRICS ^f	55.6	50.2	24.9	12.4	9.5	12.9	9.6	8.8	12.6	19.1	26.4	22.2	21.5	52.8
KNIT APPAREL	42.9	50.6	25.2	21.5	20.0	15.0	12.7	12.2	18.9	25.8	22.4	19.1	24.4	25.4
OTHER APPAREL	8.5	10.9	12.9	9.9	11.2	12.4	11.2	10.7	14.1	18.5	22.6	20.1	17.4	18.0
OTHER MANUFACTURE ^g	2.5	2.2	2.6	3.0	3.5	2.2	1.4	1.1	1.2	1.2	0.9	1.1	0.8	0.8
TOTAL IMPORTS^h	104.3	96.2	85.9	66.2	63.0	61.5	53.3	48.6	66.7	85.9	92.2	80.6	85.1	97.2
WOOL CONTENT OF EXPORTS														
CARPET	0.8	1.0	0.9	1.2	1.1	1.9	2.5	1.9	2.5	2.0	0.7	0.4	0.5	0.2
OTHER	4.9	4.2	4.0	8.2	20.5	28.9	20.5	17.4	11.6	9.5	10.9	15.7	24.5	12.2
TOTAL EXPORTS^h	5.7	5.2	4.9	9.4	30.6	30.8	23.0	19.2	13.9	11.5	11.6	14.0	23.8	12.4
NET IMPORTS	98.6	91.0	81.0	56.8	32.4	30.5	30.3	29.4	52.8	74.4	80.6	66.6	61.3	84.8
TOTAL DISAPPEARANCE	515.5	486.9	389.9	303.9	303.7	233.9	166.4	177.0	216.5	229.1	242.0	220.5	209.5	247.8
DISAPPEARANCE IN CARPETS & RUGS														
CARPET WOOL CONSUMPTION	97.1	99.1	80.1	77.7	79.2	64.1	19.4	16.6	15.5	12.8	15.2	10.9	10.4	10.0
IMPORTS OF CARPETS	9.4	9.2	7.8	9.2	12.5	15.6	12.5	11.4	14.1	14.8	15.9	15.9	16.9	17.0
EXPORTS OF CARPETS	0.8	1.0	0.9	1.2	1.1	1.9	2.5	1.9	2.5	2.0	0.7	0.5	0.5	0.2
TOTAL	105.6	107.3	87.0	85.7	90.4	59.8	29.4	26.1	27.3	25.6	26.4	23.5	27.0	27.7
<i>* Imports of Total</i>	<i>9</i>	<i>8%</i>	<i>9</i>	<i>16%</i>	<i>11%</i>	<i>25</i>	<i>62%</i>	<i>40%</i>	<i>81%</i>	<i>58</i>	<i>52%</i>	<i>80%</i>	<i>62%</i>	<i>104%</i>
DISAPPEARANCE IN ALL OTHER PRODUCTS														
OTHER WOOL CONSUMPTION	519.8	296.8	228.8	169.4	192.1	169.5	116.7	150.6	148.2	141.9	148.2	145.0	147.8	155.0
IMPORTS	95.0	87.0	78.1	57.0	50.7	47.7	40.8	37.2	52.6	71.1	78.3	66.7	68.2	79.4
EXPORTS	4.9	4.2	4.0	8.2	20.5	28.9	20.5	17.4	11.6	9.5	10.9	15.7	24.5	12.2
TOTAL	409.9	379.6	302.9	188.2	211.3	179.1	137.0	150.9	189.2	203.5	215.6	196.0	182.5	220.1
<i>* Imports of Total</i>	<i>23</i>	<i>23</i>	<i>26</i>	<i>26</i>	<i>24</i>	<i>26%</i>	<i>30</i>	<i>24%</i>	<i>28</i>	<i>35</i>	<i>46%</i>	<i>34</i>	<i>37%</i>	<i>36</i>

a. Calendar years.

b. Estimates based on 9 months' data for mill consumption, imports and exports.

c. Agrees with *Organon's* Selected Monthly Data Table.

d. Raw wool consumed on the cotton spinning system.

e. Tops includes advanced wool.

f. Includes pile fabrics & manufactures, blankets, tapestry & upholstery, press & billiard cloths, car robes, etc.

g. Includes knit fabrics in the piece and miscellaneous manufactures not elsewhere specified.

h. March *Organon* page 57 or as revised later.

try. Thus the 1981 shearing is expected to total about 13½ million head, or some 4% above the 13 million head shorn in 1980.

The 1981 U.S. lamb crop is estimated at nearly 9 million head, 8% larger than the preceding year's 8½ million and 11% more than 1979. The 1981 lambing rate per 100 ewes one year old and older on hand January first was 101 compared with 97 in 1980 and 95 in 1979.

U.S. DISAPPEARANCE

The first section of the table above shows that the 1980 U.S. mill consumption of apparel-class wool

totaled 124.7 million pounds, up slightly from the 1979 figure of 124.5 million pounds. Mill consumption of carpet-class wool in 1980 was 9.2 million pounds, down 7% from 1979. For 1981, on the basis of nine months' actual figures, it is estimated that U.S. consumption of apparel wool will be about 141.0 million pounds, 13% more than 1980. Consumption of carpet wool this year is estimated at 9.0 million pounds, 9% less than 1979.

In 1980, consumption of all types of wool totaled 148.2 million pounds, 3½% below the 1979 consumption figure of 153.9 million pounds. For 1981, total wool consumption is expected to increase 6% to 163.0 million

pounds. These consumption data cover mill consumption of shorn, pulled and other wool of the sheep on the woolen spinning system as well as the production of worsted tops. Additional but small quantities of wool are consumed on the cotton system. Finally, there is a fairly substantial amount of reprocessed and reused wool used; most of this goes into noncarpet applications.

The second and third sections of the page 212 table show the wool content of U.S. imports and exports of semimanufactured and manufactured products. The line labeled "Total Disappearance" is derived as mill consumption plus imports and less exports of semimanufactures and manufactures.

The United States remains a net importer of wool and wool products, with a 1980 net import figure of 61.3 million pounds for manufactured and semimanufactured products. For 1981, the net import balance of these products is projected to be 84.8 million pounds, the largest since 1968. Expressed in terms of share of the total disappearance, net imports in 1980 were 29.2%, down slightly from 30% last year. For further details of U.S. foreign trade in wool and wool products, see pages 36-37 of the March 1981 *Organon* issue.

U.S. WOOL PRICES

The current price of domestic fine graded territory wool for 62s is \$2.63 per pound. This compares with \$2.43 per pound a year ago and \$2.15 per pound in 1979. Currently, Australian 62s are \$3.02 per pound compared with \$3.00 per pound a year ago and \$2.83 per pound in 1979.

WOOL SUPPORT PROGRAMS

A government wool price support program, in the form of incentive payments to sheep raisers, has been in effect since April 1955. The original purpose of this program was to encourage an annual shorn wool production of up to 300 million pounds. Authorized by the National Wool Act of 1954, this program guarantees wool growers a minimum price at which they can sell their shorn wool.

The Agriculture and Consumer Protection Act of 1973 extended through December 31, 1977, the Federal support program for wool and mohair. In 1978, President Carter signed into law the National Wool Act as part of the Food and Agriculture Act of 1977, extending the support program through 1981.

For 1981, the support price for shorn wool was set at \$1.35 per pound, up from \$1.23 per pound in 1980 and \$1.15 per pound in 1979.

MOHAIR SITUATION

U.S. production of mohair for 1980 was reported to be 8.8 million pounds (greasy basis), down 5 1/2% from the

previous year. The number of goats clipped was about 1% million, 35,000 less than 1979 and the mohair yield was 7.1 pounds per goat. In 1980, the average farm price was \$3.50 per pound, down from \$5.10 per pound in 1979. Incentive payments on mohair sold in 1980 will not be made because the average farm price was above the announced support level of \$2.90 per pound.

The spring 1981 U.S. mohair clip was estimated at 4.5 million pounds (greasy basis) with a carryover of 1 million pounds. At the end of the spring season in June, about 2 million pounds of mohair were on hand. Adult mohair was quoted at \$3.00 to \$3.10 per pound.

U.S. MAN-MADE FIBER PRODUCING CAPACITY

Last month, the U.S. man made fiber producing industry had the capacity to produce 12,175 million pounds of fiber per year. This was an increase of 1% over the capacity in place one year ago. Over the 5 year period 1976-1981 total capacity has grown at an annual rate of 1.7%. Production has grown at an annual rate of 4.0% over this period, thus bringing the average utilization rate of the man-made fiber industry to a projected 82% in 1981 from 75% in 1976.

By November 1983 total man made fiber producing capacity is expected to grow at an annual rate of 1.9% to 12,636 million pounds annually. Non-cellulosic fiber capacity is expected to increase by 2.1% annually over this 2 year span, while textile glass fiber is expected to grow 1.8% annually. Cellulosic fiber capacity is expected to decrease by 3 million pounds. The table below shows the actual growth rates for both production and capacity over the 5 year span 1976-1981 and the *projected* growth rate for capacities over the 2 year period 1981-1983.

ANNUAL GROWTH RATES

	Actual 1976-1981		Projected 1981-1983
	Production %	Capacity %	Capacity %
MAN-MADE			
FIBER TOTAL	4.0	1.7	1.9
NON-CELLULOSIC			
TOTAL	4.1	1.2	2.1
YARN	3.3	0.5	1.7
STAPLE	4.9	3.1	2.4
CELLULOSIC			
TOTAL	1.7	5.5	0.2
YARN	2.8	4.5	0.5
STAPLE	0.7	6.2	0.1
TEXTILE GLASS			
FIBER	9.2	11.8	1.8

SURVEY COVERAGE & DEFINITIONS

The survey figures shown in the page 214 table cover the man-made fibers in all their primary forms, i.e., filament yarn, monofilaments, polypropylene spunbonded

U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS & Average Denier

PERIOD	RAYON & ACETATE							TOTAL	NON CELLULOSIC FIBERS ^a			TEX- TILE GLASS TOTAL ^c	GRAND TOTAL MAN-MADE FIBERS		
	FILAMENT YARN+MONOFIL				STAPLE+TOW				YARN +MONO	STAPLE +TOW	TOTAL		YARN ^d +MONO	STAPLE +TOW	TOTAL
	RAYON	ACETATE ^b		TOTAL	RAYON	ACE- TATE ^b	TOTAL								
		10S	Den												
ACTUAL ANNUAL PRODUCTION															
1970	208	605		741	107	65	1142	1375	1705	3580	407	2091	2435	5426	
1971	304	449		754	112	26	138	1591	2188	2105	4293	3409	2745	6152	
1972	252	611		863	115	28	741	1404	2774	2583	5356	372	3998	5324	
1973	198	457		655	107	25	722	1357	3340	2970	6309	4662	3092	8554	
1974	172	362		534	115	20	105	1199	3445	2780	6225	4660	3445	8105	
1975	15	301		316	47	12	383	749	3200	2677	5886	346	4121	7181	
1976	68	287		355	175	11	486	841	3306	3320	6626	1557	3800	8145	
1977	71	282		353	127	8	534	898	3074	3654	7528	4814	4189	9003	
1978	12	301		313	44	7	512	938	3840	305	7785	5116	4495	9611	
1979	37	317		354	59	7	666	930	4155	4282	8437	5543	4848	10391	
1980	17	303		320	445	7	450	869	3744	4148	7892	4968	4508	9476	
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -															
NOV 1970 ^e	560	654	5.5	854	819	40	859	1713	2440	2422	4862	4951	3281	7232	
NOV 1971 ^e	537	690	5.5	827	757	40	797	1614	2706	2620	5326	4519	3407	7926	
NOV 1972 ^e	258	680	5.5	721	761	40	791	1512	3302	3034	6336	4804	3825	8629	
NOV 1973 ^e	224	475	5.5	699	708	28	736	1433	3768	3302	7070	5174	4098	9272	
NOV 1974 ^e	172	362	5.5	534	724	28	752	1574	4175	3584	7759	5617	4346	9963	
NOV 1975 ^e	110	384	5.5	494	747	18	765	1240	4600	3706	8306	4633	4551	9184	
NOV 1976 ^e	85	399	5.5	484	691	18	709	1193	4878	4254	9132	4255	4805	11218	
NOV 1977 ^e	85	315	5.5	400	655	8	663	1063	4974	4594	9568	4662	5057	11445	
NOV 1978 ^e	83	330	5.7	413	665	8	673	1086	5000	4571	9571	4631	5244	11175	
NOV 1979 ^e	75	335	5.9	410	671	8	679	1109	5126	4678	9804	4601	5457	12218	
NOV 1980 ^e	64	324	5.8	387	514	8	522	1009	4933	4714	9647	4704	5246	12029	
NOV 1981 ^e	52	332	5.8	384	509	5	514	898	4766	4903	9716	4711	5404	12175	
MAY 1982 ^f	58	322	5.9	380	510	5	515	895	4817	4976	9793	4778	5491	12269	
NOV 1982 ^f	58	322	5.9	380	510	5	515	895	4866	5041	9907	4847	5556	12403	
MAY 1983 ^f	58	322	5.9	380	510	5	515	895	4915	5100	10015	4908	5615	12523	
NOV 1983 ^f	58	322	5.9	380	510	5	515	895	4933	5100	10033	4931	5705	12636	

a. The non-cellulosic fibers included are those listed in the September *Organon* issues each year. Yarn+mono includes olefin, film, fiber and spinnable polypropylene. Staple+tow includes fiberfill.

b. The acetate production and producing capacity data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Textile glass fiber, all types.

d. Grand Total Yarn means the yarn+mono shown plus all textile glass fiber.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of November 1981.

and film fiber are tabulated as filament yarn, while staple, tow and fiberfill are tabulated as staple. The glass fiber data cover all primary forms of that fiber (yarn & strand, staple yarn & sliver, roving & cake, chopped & milled fiber and mat) although only an aggregate figure is published to avoid disclosure of individual company data. The textile glass data are included with the filament yarn totals. The "capacity" to produce waste is *not* included in the survey data.

Capacity is based on the current and projected "mix" of deniers, filament counts, packages, etc. It is *emphasized* that all figures refer to current and planned capacity. *They are not to be misinterpreted as a production forecast.*

Under the survey definitions, all productive equipment which is currently, or is projected to be, in operable condition is counted as capacity, regardless of whether it is actually producing fiber at the time the capacity measurement is taken. On the other hand, equipment which is definitely scheduled for scrapping, or

which has been scrapped since the last survey, is excluded from the capacity tabulation. Put another way, the capacity data reflect potential, rather than operating, capacity.

CELLULOSIC FIBER CAPACITY

Cellulosic fiber capacity is expected to change very little over the next two years. Current capacity of 898 million pounds is projected to decline 3 million pounds by November 1983. Rayon capacity, currently 561 million pounds, is due to reach 568 million pounds by November 1983, whereas acetate capacity is expected to decline 10 million pounds over the next two years to 327 million pounds.

The chart on page 215 following shows the average utilization rate for cellulosic yarn, staple and total for the period 1976-1981. The 1981 figures are preliminary estimates. Utilization rates for the cellulosic fibers rose from 69% in 1976 to a projected 85% in 1981.

NON-CELLULOSIC FIBER CAPACITY DETAIL

MILLION POUNDS & Average Denier

MILLION POUNDS & Average Denier													STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL
PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER					TOTAL	NYLON + ARAMID	ACRYL + MOD ACRYL	POLY ESTER	OLEFIN + VINYLON	TOTAL							
	IND	CARP	TEXTILE	IND	TEXTILE							YARN	MONO ^b	FILM ^b	OTHER ^c			
NOV 1970 ^d	480	428	560	NA	294	510	NA	110	119	106	18	2,600	280	650	1,570	114	2,422	4902
NOV 1971 ^d	465	541	522	NA	437	550	NA	80	104	114	19	2,700	300	698	1,455	107	2,620	5,410
NOV 1972 ^d	469	626	550	NA	564	802	NA	90	177	130	20	3,502	602	754	1,571	107	4,054	10,900
NOV 1973 ^d	466	707	544	NA	585	1,118	NA	100	214	190 ^e	18	4,748	701	767	1,700	108	5,602	17,000
NOV 1974 ^d	485	770	552	NA	605	1,451	NA	125	254	224	16	4,175	757	824	1,800	104	6,584	27,400
NOV 1975 ^d	504	780	554	NA	591	1,576	NA	108	314	344	16	4,400	827	827	2,021	121	6,700	34,500
NOV 1976 ^d	519	787	552	NA	442	1,701	1,00	178	512	471	16	4,878	910	860	2,455	120	6,254	41,420
NOV 1977 ^d	524	829	558	NA	445	1,698	1,26	174	546	498	16	4,974	949	860	2,470	116	6,494	44,080
NOV 1978 ^d	510	908	565	NA	445	1,645	1,16	174	547	594	16	5,000	1,024	865	2,554	120	6,574	48,710
NOV 1979 ^d	514	950	570	NA	445	1,690	1,14	172	542	608	20	5,120	1,020	850	2,773	140	6,778	48,600
NOV 1980 ^d	515	910	551	NA	400	1,657	1,13	120	550	650	20	4,944	991	840	2,740	144	6,714	49,047
NOV 1981 ^d	514	895	554	NA	416	1,681	1,14	178	550	655	20	4,700	1,010	845	2,849	200	6,950	57,100
MAY 1982 ^e	514	940	540	NA	445	1,605	1,12	197	557	655	20	4,817	998	844	2,851	284	6,970	57,044
NOV 1982 ^e	528	948	540	NA	445	1,605	1,12	197	560	660	20	4,860	1,045	840	2,860	285	7,044	59,007
MAY 1983 ^e	541	944	550	NA	450	1,677	1,13	204	578	670	20	4,915	1,068	851	2,880	295	7,100	60,015
NOV 1983 ^e	542	960	554	NA	449	1,677	1,13	204	578	670	20	4,944	1,074	851	2,971	295	7,190	61,024

IND means industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more. CARP means bulked continuous filament yarn for carpets. TEXTILE means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

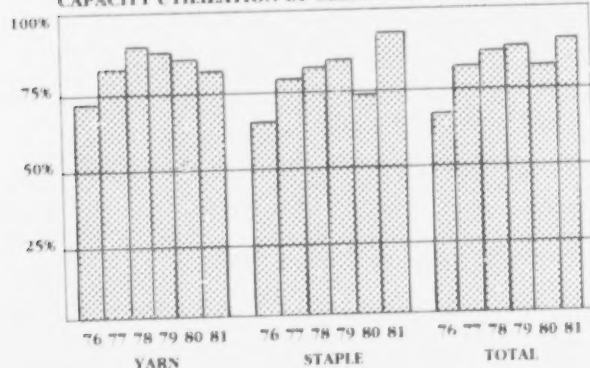
b. Olefin monofil includes the circular and rectangular (ribbons) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Other yarn & monofil is chiefly rayon and spandex. Rayon data are included with nylon.

d. Actual producing capacity as of date shown.

e. Future producing capacity planned for certain & dates as of November 1981.

CAPACITY UTILIZATION OF CELLULOSIC FIBER



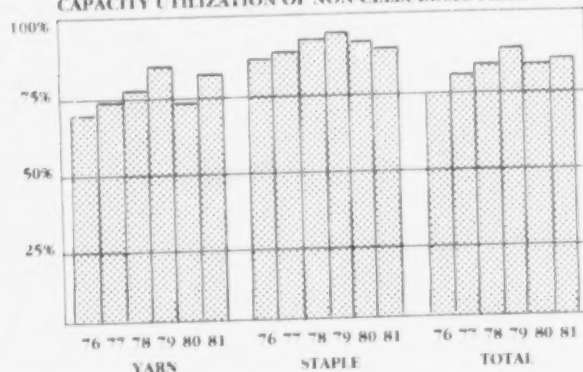
NON-CELLULOSIC FIBER CAPACITY

Non-cellulosic fiber capacity is slated for an increase of 407 million pounds over the next two years, or a 2.1% annual growth rate. The chart opposite details the utilization rate for non-cellulosic fibers for the 5 year period 1976-1981.

Nylon fiber capacity is expected to grow at an annual rate of 2.5% from November 1981 to November 1983. By November 1983 nylon capacity is expected to total 3,119 million pounds, up from 2,970 million pounds currently. Nylon yarn is projected to grow at a 2.2% annual rate, reaching 2,046 million pounds by November 1983 and nylon staple is expected to reach 1,073 million pounds two years hence.

Over the past five years, nylon production has grown

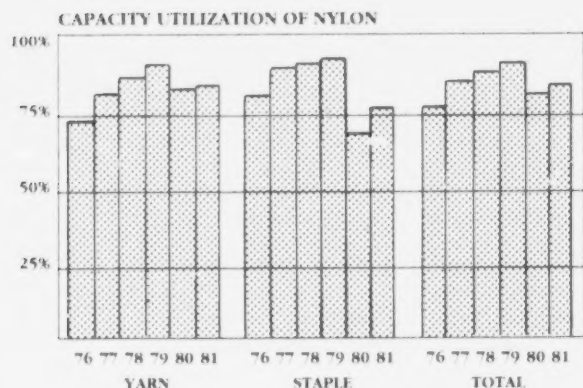
CAPACITY UTILIZATION OF NON-CELLULOSIC FIBER



at a 2.8% annual rate, whereas capacity has grown at a 1.4% annual rate. Thus, the current utilization rate for the nylon industry is projected to be 80% in 1981 as compared with 76% in 1976.

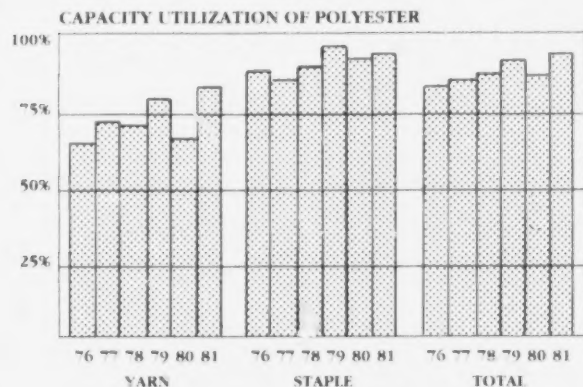
At present, nylon 6 represents 30% of total nylon yarn capacity, while for staple the corresponding figure is 39% for a average nylon 6 share of 33%.

Polyester capacity is projected to be 4,787 million pounds by November 1983, a growth rate of 1.6% annually. Current polyester capacity, at 4,636 million pounds, is 3 1/2% less than the 4,796 million pounds in place as of November 1980. Polyester yarn, with a current capacity of 1,797 million pounds, is projected to grow at an annual rate of 0.5% to a total of 1,816 million pounds and polyester staple capacity is scheduled to



grow at an annual rate of 2.3% from 2,839 million pounds currently to 2,971 million pounds by November 1983.

During the 1976-1981 period, production has grown at a 4.6% annual rate while capacity has grown at a 0.6% annual rate. Thus the projected 1981 polyester utilization rate is projected to be 90% compared with 79% in 1976. The chart below details utilization rates for the 1976-1981 period.



Due to plant closures over this 5 year period, polyester yarn capacity actually declined at a 3.5% annual rate, thus raising the average utilization rate for polyester yarn from 68% in 1976 to a projected 84% in 1981.

Olefin capacity, as of November, stood at 1,255 million pounds, 21% above year-ago levels. By November 1983, capacity is expected to reach 1,346 million pounds, an annual growth rate of 3.6%. Of the 1983 olefin total, yarn+monofilaments+film fiber+spunbonded will account for 1,051 million pounds, with the other 295 million pounds being staple+tow. Olefin staple also includes a small amount of vinyon staple.

Olefin capacity utilization for 1981 is estimated to be 68%, up from 60% in 1976. Over this 5 year period, olefin yarn utilization increased from 62% in 1976 to a pro-

jected 68% in 1981 and olefin staple from a 51% rate in 1976 to an estimated 70% rate in the current year.

TEXTILE GLASS CAPACITY

Current industry capacity is put at 1,561 million pounds, an increase of 6% over last year. By November 1983, industry capacity is projected to reach 1,618 million pounds, an annual growth rate of 1.8% per year. During the 5 year period 1976-1981, production grew at a 9.2% annual rate while capacity grew at an 11.8% annual rate. Thus capacity utilization fell from 75% in 1976 to an estimated 69% in 1981.

AVERAGE DENIER

In polyester textile yarn, the trend towards finer deniers has leveled off in recent years. In May 1976, when average denier data were first collected, the average was 139. Thereafter, it declined to 133 in November 1976, to 126 in November 1977, to 116 in November 1978, to 114 in November 1979, to 113 in November 1980 and increasing to 114 in November of this year. By November 1983, the average denier is projected to be 113.

In nylon textile yarn, the trend towards finer deniers has occurred at a slower pace. In May 1976, the average denier was 54 and had declined to 52 by November 1980. As of November 1981, the average denier stood at 49 and is expected to remain at 49 through November 1983.

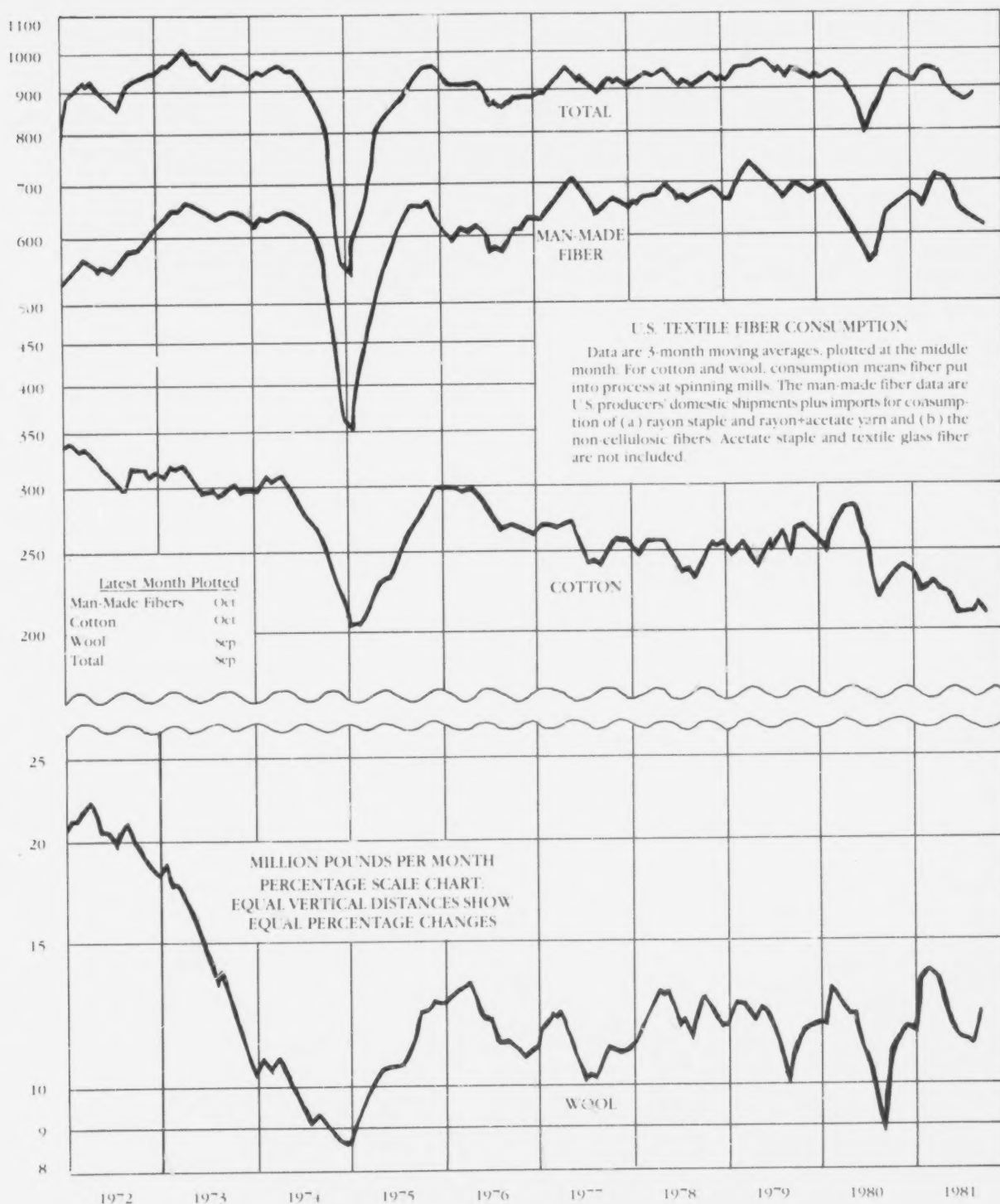
In acetate yarn, after an initial drop, average denier had tended to remain around the 89 mark through November 1980, rising to 95 as of November 1981. As of November 1983, the average denier is expected to be 89 again.

SHIPMENTS BY PRIMARY TRADE OR END USE

The tables on pages 218 and 219 present a breakdown of domestic filament yarn and staple+tow shipments by primary trade or major end use for the most recent periods. The shipments are also divided between apparel, home furnishings and industrial markets.

Drawing the yarn and staple data from the tables on pages 218 and 219 together, the distribution between these three market segments is as follows (million pounds).

	1977	1978	1979	1980	^a Mos. 1981
Apparel	3186	3165	3153	3195	2359
Home Furnishings	2693	2887	3034	2687	2034
Industrial	1645	1814	2038	1774	1387
	7524	7866	8225	7656	5780



FILAMENT YARN DOMESTIC SHIPMENTS^a

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
		1977	1978	1979	1980	1980				1981			
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE	(N) NYLON+ARAMID	(P) POLYESTER	(O) OLEFIN								
HOSIERY ^b	N	88.8	99.0	106.5	106.5	27.2	26.7	25.3	27.1	27.2	27.2	27.7	
OTHER CIRCULAR KNIT ^c	N	78.9	65.5	58.9	50.6	14.3	13.0	13.2	16.1	12.5	13.6	11.4	
	P	738.7	635.5	615.4	695.7	145.8	108.7	114.4	126.8	95.4	98.0	85.9	
FLAT KNIT	A	1.6	1.9	4.5	5.2	1.0	0.8	0.7	0.7	0.9	2.1	1.3	
	N	124.2	138.5	140.9	144.9	57.4	40.0	35.9	31.6	27.6	37.2	23.8	
	P	105.6	196.1	202.6	176.5	50.4	42.5	45.2	48.5	43.8	44.5	47.6	
	P	85.9	81.7	89.0	83.8	23.2	17.7	19.8	23.1	24.6	24.4	23.1	
CARPET FACE	N	617.8	677.8	732.5	714.5	183.5	157.5	169.3	204.2	184.0	186.9	146.6	
	O	67.0	78.9	85.4	89.5	24.3	20.9	20.4	23.9	21.5	22.7	22.0	
CARPET BACKING ^d	O	196.4	213.7	220.7	197.8	52.5	44.4	49.7	51.2	52.7	49.9	48.0	
OTHER BROAD WOVEN ^e	A	126.2	125.9	129.2	110.5	42.7	27.4	25.6	24.8	22.8	27.7	29.6	
	N	87.7	95.0	102.7	94.5	26.9	25.0	18.7	22.8	22.0	21.9	21.6	
	P	515.9	411.5	387.2	405.5	102.9	97.1	96.0	108.9	101.8	138.4	115.6	
	O	102.9	158.7	171.4	186.5	42.6	45.5	47.1	54.3	50.5	50.5	51.5	
NARROW WOVEN ^f	A	5.9	7.0	5.0	8.7	1.5	3.2	2.0	2.0	1.5	2.2	2.2	
	N	38.0	40.6	37.2	31.4	9.3	7.3	7.6	7.2	9.1	7.1	9.2	
	P	24.0	29.1	30.5	28.1	8.1	5.6	7.4	7.0	6.4	7.5	7.3	
	O	10.5	11.1	11.8	12.5	5.2	3.0	3.1	3.0	3.2	3.2	3.1	
TIRIS INCL CHAFFER	N	244.1	267.6	285.3	209.2	69.4	60.2	65.1	54.5	51.5	52.7	52.0	
	P	258.0	253.4	227.4	161.0	45.6	51.2	37.0	47.2	43.8	44.1	46.0	
OTHER RUBBER INDUSTRY ^g	N	22.5	25.7	28.7	22.3	6.1	4.9	4.8	6.5	7.2	6.4	5.5	
	P	30.1	32.0	35.8	30.2	10.0	6.1	6.7	7.4	7.4	8.1	9.5	
ROPE, CORDAGE & FISHLINE	N	28.1	33.4	38.2	33.0	9.6	7.6	7.7	8.1	8.2	7.9	8.2	
	P	10.4	10.6	13.6	13.1	3.0	3.6	3.0	3.5	4.6	3.7	4.7	
	O	74.4	82.4	95.3	84.4	20.7	23.4	18.8	21.5	28.5	22.9	18.9	
ALL OTHER ^h	A	1.5	1.5	1.9	1.9	0.5	0.5	0.5	0.6	0.6	0.7	1.0	
	N	54.7	58.4	58.9	95.0	19.4	25.5	20.8	20.3	15.7	17.9	20.0	
	P	47.6	53.8	126.2	146.0	30.6	40.7	35.5	39.2	73.1	69.8	74.3	
	O	28.6	34.9	39.7	41.4	13.6	8.9	8.2	10.7	8.1	9.6	11.5	
TOTAL DOMESTIC ABOVE	A	259.4	274.6	288.4	269.2	72.9	71.9	64.7	59.7	53.4	69.0	57.6	
	N	1396.2	1539.1	1631.3	1538.9	416.0	350.9	347.7	424.3	380.5	386.1	340.4	
	P	1510.6	1507.6	1525.1	1465.4	369.2	310.7	320.4	365.1	355.6	394.0	366.3	
	O	539.6	579.7	624.2	611.7	156.9	143.9	147.3	165.6	164.3	158.6	155.0	
TOTAL DOMESTIC ABOVE ALSO DIVIDED AS		3705.8	3901.0	4069.0	3783.2	1015.0	877.4	880.1	1010.7	953.8	1008.6	919.3	
APPAREL		1654.4	1671.2	1694.5	1530.4	407.9	354.5	365.1	403.1	388.4	430.9	380.5	
HOME FURNISHINGS		1090.5	1171.9	1274.6	1212.7	318.6	274.0	285.5	334.6	306.5	311.3	271.3	
INDUSTRIAL		980.9	1057.9	1189.9	1040.1	288.5	249.1	229.5	273.0	258.9	257.4	267.5	
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) ⁱ													
ACETATE		1.0	1.3	4	0	0	0	0	0	0	0	0	
NYLON		158.5	161.6	166.8	167.4	40.4	41.6	39.4	46.0	39.0	39.8	36.5	
POLYESTER		1045.1	1018.7	1015.3	942.0	249.1	216.4	225.0	251.5	248.3	277.5	251.0	
OLEFIN		53.8	52.3	46.5	40.9	11.0	9.0	8.1	12.8	9.7	8.9	8.4	

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only.

f. Industrial applications are in All Other.

g. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

h. Small poundages of olefin are included in All Other.

i. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

j. These poundages are included in the Total Domestic area above.

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA								
		1977	1978	1979	1980	1980				1981				
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	
		(R) RAYON	(N) NYLON+ARAMID	(A) ACRYLIC+MODACRYLIC	(P) POLYESTER	(O) OLEFIN								
HOSIERY-SWEATERS & CRAFT YARNS ^a	A	262.3	241.8	248.8	275.7	75.8	71.9	56.2	71.8	65.2	70.6	67.2		
	NPR	15.0	24.7	21.3	11.6	4.1	3.3	1.9	2.3	2.2	1.9	2.3		
PILE FABRICS ^b	A	87.6	82.4	65.1	60.4	17.5	18.7	11.7	12.5	14.8	14.3	8.8		
	P	25.4	15.1	17.8	19.7	6.4	4.9	4.1	4.3	3.0	4.5	3.5		
OTHER CIRCULAR & FLAT KNIT ^c	R	11.6	10.8	11.7	9.8	3.8	1.8	2.4	1.8	2.7	3.3	2.6		
	A	111.8	93.1	98.8	125.0	34.8	35.1	27.1	28.0	24.0	26.2	23.3		
BLANKETS ^b	P	204.5	223.7	278.1	298.4	82.9	70.2	64.3	81.0	77.7	78.7	78.2		
	A	30.2	35.2	45.5	42.2	10.7	11.0	11.9	8.6	7.6	6.2	6.4		
OTHER BROAD WOVEN	P	15.6	14.9	13.2	17.7	4.2	3.4	3.5	4.6	3.2	3.1	3.1		
	R	223.0	245.9	233.2	201.6	57.0	43.7	48.0	52.9	56.5	58.2	37.6		
	N	55.4	52.6	59.2	53.0	15.6	9.9	10.2	17.3	12.4	14.2	13.2		
	A	27.2	28.6	42.1	42.3	11.3	10.3	9.1	11.6	10.0	8.5	7.1		
	P	1105.8	1114.7	1171.0	1204.1	524.1	287.2	268.5	524.3	299.9	290.8	284.2		
	O	7.4	10.6	17.0	37.3	4.0	4.3	3.7	5.3	5.0	5.7	2.9		
CARPET FACE YARNS	R	0.1	*	*	*	*	*	*	*	*	*	0.2		
	N	715.0	708.5	828.0	631.5	149.4	115.8	171.3	195.0	185.7	192.7	136.3		
	A	72.7	62.8	48.1		Included in All Other								
	P	205.3	200.8	192.4	119.9	32.2	25.1	23.0	38.7	27.0	37.6	29.2		
FIBERFILL ^d	O	38.7	46.0	64.7	61.6	14.9	14.7	14.6	17.4	16.1	17.7	17.3		
	P	176.8	198.2	249.6	205.1	55.5	44.6	52.7	52.3	57.1	54.0	50.0		
FLOCK	N	5.7	8.2	10.7	10.8	3.4	2.5	2.1	2.8	3.8	4.2	2.7		
	R	6.4	4.7	5.1	5.1	1.2	1.4	1.1	1.4	0.8	1.3	2.3		
NONWOVENS ^{e,f}	R	174.3	160.2	160.3	147.3	45.1	30.0	29.6	33.6	32.6	34.9	29.3		
	N	4.1	4.3	3.8	3.2	0.9	0.7	0.8	0.8	1.1	1.0	0.8		
	P	57.4	98.5	153.6	150.3	36.9	34.8	38.3	38.3	36.1	37.8	35.8		
	VINYLON+G	30.6	23.6	36.7	34.6	9.4	7.1	8.4	9.7	9.6	11.3	11.1		
ALL OTHER	R	26.1	29.5	30.9	26.2	7.0	6.6	6.1	6.5	7.1	6.5	8.4		
	N	9.1	11.1	10.8	12.2	2.6	4.1	2.9	2.6	2.3	3.8	2.2		
	A	8.0	7.7	8.2	49.7	11.3	8.7	8.9	10.6	10.0	11.2	10.7		
	P	80.3	80.7	49.3	45.4	14.9	9.6	9.0	11.9	10.4	10.8	12.7		
	VINYLON+G	4.7	0.8	0.9	1.5	0.6	0.2	0.3	0.4	1.2	0.8	0.9		
TOTAL DOMESTIC ABOVE	R	444.9	459.2	442.4	390.7	114.2	92.6	87.3	96.6	100.2	104.5	100.7		
	N	791.7	876.4	913.2	711.2	171.9	133.2	187.6	218.5	204.8	215.9	155.4		
	A	619.8	571.6	546.6	585.3	161.0	155.7	124.9	143.1	130.2	137.0	123.5		
	P	1880.3	1967.5	2134.4	2071.0	563.1	483.8	460.8	557.3	493.2	525.9	507.3		
	VINYLON+G	81.3	90.0	119.3	115.0	28.9	26.3	27.0	32.8	31.9	35.5	32.2		
TOTAL DOMESTIC ABOVE		3818.0	3964.7	4155.9	3873.2	1039.7	891.6	893.6	1048.3	960.3	1018.8	919.3		
ALSO DIVIDED AS:														
APPAREL		1551.7	1493.4	1548.6	1060.4	460.7	409.1	363.3	431.3	366.0	407.9	386.8		
HOME FURNISHINGS		1002.2	1714.8	1750.1	1474.2	375.1	311.9	358.4	428.8	394.7	415.9	334.0		
(INDUSTRIAL)		664.1	756.5	848.2	738.6	203.9	170.6	171.9	188.2	199.0	205.0	198.5		

a. Olefin poundages are included in All Other

b. Rayon and nylon poundages are included in All Other

c. Nylon poundages are included in All Other

d. Rayon and acrylic poundages are included in All Other

e. Wet & dry laid and needled batts only

f. Acrylic poundages are included in All Other

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**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN**
THOUSAND POUNDS

ITEM	1981												10 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS														
CANADA	518	125	8	1	12	5	0	15	4	14			502	694
MEXICO	161	79	165	41	191	166	81	246	121	78			1527	1228
BELGIUM	0	50	25	0	76	0	23	0	0	6			180	0
WEST GERMANY	242	290	555	200	649	179	115	457	306	455			3318	868
GREECE	0	0	0	0	49	3	0	0	0	82			121	0
NETHERLANDS	286	595	555	293	262	194	572	540	284	197			3094	1548
SPAIN	142	0	0	0	41	0	40	0	0	0			224	70
UNITED KINGDOM	1	10	0	0	41	0	90	73	14	0			255	1600
JAPAN	64	0	0	0	33	36	0	28	14	51			226	648
SOUTH KOREA	1	0	0	40	40	0	0	0	60	54			175	120
ALL OTHER COUNTRIES ^a	19	4	0	0	0	20	5	38	0	24			110	253
TOTAL R+A YARN	1184	1151	1084	581	1374	600	726	1087	803	921			9511	7034
RAYON+ACETATE STAPLE+TOW														
CANADA	669	474	450	451	421	392	411	465	407	401			4325	1529
AUSTRIA	731	115	160	303	768	250	403	568	526	500			3988	1075
FRANCE	18	83	39	45	0	45	0	0	0	194			422	100
WEST GERMANY	0	0	85	0	0	0	0	45	2	45			175	215
ITALY	0	12	0	0	36	16	105	115	0	292			576	0
SWEDEN	552	234	184	0	187	227	227	298	224	184			2697	2555
UNITED KINGDOM	226	76	7	157	203	235	349	75	122	249			1099	1461
JAPAN	90	147	74	118	50	88	105	87	60	220			1048	848
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0	96	37			145	52
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449	1437	1920			14465	7835
NON-CELLULOSIC YARN, MONOFIL & STRIPS														
CANADA	50	98	4	579	415	280	380	265	55	45			2178	2819
MEXICO	14	20	12	15	44	0	4	90	2	8			226	26
AUSTRIA	0	0	0	0	64	0	41	10	0	11			126	1
BELGIUM	0	0	0	0	0	1	0	5	57	68			151	53
FRANCE	94	130	203	210	166	109	245	125	101	214			1587	663
WEST GERMANY	256	382	275	501	426	553	520	508	352	470			3843	2561
ITALY	52	152	35	0	108	79	0	353	227	155			1141	181
NETHERLANDS	0	1	9	0	49	28		42	0	3			132	122
SPAIN	61	0	0	0	0	0	0	179	0	99			339	62
SWITZERLAND	1	5	8	0	3	5	50		5	50			121	18
UNITED KINGDOM	57	114	37	5	5	1	4	15	14	48			298	601
JAPAN	300	671	357	776	662	743	773	601	360	670			5013	9795
SOUTH KOREA	5	36	3	3	45	2	1	3	3	2			101	9
ALL OTHER COUNTRIES ^c	2	5	0	0	50	6	2	0	51	11			111	626
TOTAL N.C. YARN	892	1610	949	2087	2035	1614	1818	2183	1205	1854			16247	17517
NON-CELLULOSIC STAPLE+TOW														
CANADA	328	350	449	531	714	425	1250	649	696	617			6009	1996
MEXICO	190	28	97	510	693	217	141	384	264	485			3007	24
BELGIUM	0	130	0	152	70	2	5	36	31	115			541	3
FRANCE	44	797	198	508	533	254	528	168	472	496			3908	46
WEST GERMANY	541	1963	1625	2233	1644	1345	2486	2453	732	1601			16523	8282
IRELAND	0	56	0	0	0	0	49	0	49	87			221	1
ITALY	7	813	610	423	717	104	1426	649	1202	72			6089	1066
NETHERLANDS	0	49	44	80	35	15	15	98	37	24			487	20
POLAND	44	38	0	0	89	0	0	3	0	0			174	53
ROMANIA	0	0	132	84	28	0	23	0	71	287			625	379
UNITED KINGDOM	208	508	320	173	264	818	713	607	396	411			4328	1881
EGYPT	0	0	0	0	0	0	0	0	333	0			333	0
JAPAN	828	335	367	493	533	478	454	288	262	356			4124	5236
TAIWAN	324	745	588	875	583	866	198	852	1291	653			6975	10187
ALL OTHER COUNTRIES ^d	0	13	0	16	1	54	23	72	26	11			216	118
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259	5702	5123			53460	29392

Other countries supplying 1981 poundages are:

a. Austria 63, France 1, Italy 4, Sweden 2, Taiwan 19 & Yugoslavia 21

b. Belgium 96, Mexico 1, Netherlands 37 & Venezuela 1

c. Australia 1, Costa Rica 11, Denmark 45, Hong Kong 2, Ireland 31,

Portugal 8, Sweden 10, & Taiwan 3

d. Austria 42, Brazil 10, Costa Rica 40, Denmark 3, Hong Kong 14, Israel 31,

Portugal 16, South Africa 23 & Switzerland 37

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

		1981												10 MONTHS	
ITEM	COMMODITY NUMBER AS OF 1-1-78	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
RAYON+ACETATE															
YARN - SINGLES														266	865
TEXTURED	5101100 & 0200	1	10	0	242	0	0	9		0	0			9221	6161
OTHER	5101149 & 0249 ^a	1182	1159	1084	559	1570	600	712	1072	803	920			4	0
MONOFILAMENTS	5000310 & 0610	1	2	0	0	0	0	0	0	0	0	1		20	10
STRIPS, FL. LB. & UNDER	5002000 ^a	0	0	0	0	0	0	5	15	0	0			9511	7034
SUBTOTAL ABOVE		1183	1151	1084	581	1574	600	726	1087	803	921			12551	5824
STAPLE	5004320 & 0525	1627	1000	927	887	1442	990	1311	1317	1358	1680			1912	2011
GROUPED FILAMENTS	5005010 & 5110	249	155	64	185	232	265	351	132	79	234			14463	7835
SUBTOTAL ABOVE		1866	1139	991	1072	1674	1255	1662	1449	1437	1920			565	507
WASTE, ADVANCED & NOT ADVANCED	5006015 & 7510	37		37	0	35	40	65	40	40	58				
NON-CELLULOSIC FIBERS															
YARN - SINGLES														5340	2981
TEXTURED - NYLON	5101100 & 0200	197	217	215	580	507	375	371	150	176	445			637	522
POLYESTER	5101110 & 0210	27		22	13	79	80	1	294	98	16			428	180
OTHER	5101114 & 0214	17	50	8	17	39	25	85	21	3	149			4694	5251
OTHER - NYLON	5101149 & 0249	269	525	127	542	487	354	317	416	458	284			4229	5774
POLYESTER	5101150 & 0250	111	311	299	599	682	491	293	955	190	618			1350	1115
OTHER	5101170 & 0270 ^b	170	185	115	188	164	50	182	81	108	111			2495	5687
MONOFILAMENTS	5005000 & 0500 ^c	145	200	149	521	258	220	458	263	161	220			162	201
STRIPS, OVER FL. LB.	5002100 & 2500 ^a	21	11	16	21	9	15	11	14	41	13			16247	17517
SUBTOTAL ABOVE		892	1610	949	2087	2035	1614	1818	2183	1205	1854			21350	15320
STAPLE - NYLON	5004330	525	2080	1008	2533	2455	1574	4055	5258	2062	504			5451	1069
POLYESTER	5004342	132	111	500	601	847	363	328	576	801	1187			9511	11010
ACRYLIC	5004353	1009	1504	1067	1201	1005	565	740	1095	680	1250			1124	144
OLEFIN	5004360	5	0	404	1	3	71	474	79	125	60			9700	12025
OTHER	5004355	469	361	673	1088	852	1281	350	1285	1660	1069				
GROUPED FILAMENTS														1698	812
NYLON	5005030 & 5130	68	50	68	137	155	196	500	23	18	473			267	117
POLYESTER	5005040 & 5140	0	42	0	0	30	90	18	30		43			2500	2280
ACRYLIC	5005050 & 5150	181	255	178	201	195	312	372	250	175	375			1800	609
OTHER	5005065 & 5165	65	116	302	160	156	189	342	77	340	153			53460	29392
SUBTOTAL ABOVE		2514	5815	4436	6078	5714	4638	7181	6259	5702	5123			20575	9808
WASTE, NOT ADVANCED - NYLON	5006025	1508	1587	2822	1713	2134	1607	2249	2344	2417	2114			18644	4232
POLYESTER	5006030	1071	1810	1547	1005	1473	1321	1448	1409	1282	2508			2265	2008
ACRYLIC	5006045	289	258	200	230	370	269	87	514	3	50			2205	754
OTHER	5006060	32	203	263	528	127	331	196	340	15	568			85	4
NOBLE & GARNETTED FIBERS	5006080 & 7000 ^a	0	0	0	0	0	0	20	28	0	28			157	468
OTHER WASTE, ADVANCED	5007425 & 7535	119	63	3	35	2	6	25	58	31	117				
TOTAL MAN-MADE ABOVE		9602	13643	12332	13135	14947	11679	15464	15717	12935	15041			134495	79439
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED														25	0
TEXTURED - CELLULOSIC	5101100	0		24	0	0	0	0	0	0	1			2826	875
NON-CELLULOSIC	5101115 ^d & 1100 ^e	208	124	213	313	364	265	342	335	145	459			18	07
OTHER - CELLULOSIC	5101130 & 1135 ^f	16		0	0	0	0	0	1	0	1			409	356
NON-CELLULOSIC	5101130 & 1070 ^g	20	27	26	44	20	4	125	14	13	16			528	508
SPUN YARN - CELLULOSIC	5104005 & 4030 ^h	10	25	24	52	37	24	93	140	58	75			16422	10627
OTHER	5104015 & 4025 ⁱ	1762	1454	1794	1740	2104	1312	1542	1314	1258	1982			3615	1938
OTHER YARNS - NES INCL. CHENILLE	5106020 & 8000	352	109	261	415	689	433	461	356	374	345			2354	1850
HAND/WORK YARNS & SEWING THREAD	5101000 & 9140	247	240	188	190	262	292	226	208	195	316			3369	2486
SILVER TOPS & ROWING	5091000	688	473	522	262	173	245	370	595	115	366			14869	5974
TEXTILE GLASS FIBER	5092801 & 2000 ^j	1156	441	1047	551	645	1085	1575	3434	2410	2127				
GRAND TOTAL ABOVE		13821	16526	16231	16702	19219	15739	20098	22104	17501	20729			178670	110169

SOURCE: U.S. Census Bureau

NES - Not elsewhere specified

^a These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

^b Also includes 51010510 & 0610.

^c Also includes 51010550, 0550, 0650 & 0650.

^d Also includes 5090340, 0365, 0500, 0650, 0640 & 0665.

^e There may be some acetate yarn in these data, but the Census

figures do not permit a segregation.

^f Also includes 5101110 & 1114.

^g Also includes 5102010 & 2110.

^h Also includes 2101150, 1155, 1170, 2030, 2050, 2130 & 2150.

ⁱ Also includes 5105005 & 5030.

^j Also includes 5104040, 4047, 4050, 5015, 5046, 5047, 5049 & 5051.

^k Chiefly rowing. Also includes 5090900 & 0900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
MAN-MADE FIBER DATA^c														
YARN* MONOFILAMENTS^d														
ACETATE														
NYLON ^e	20.9	21.6	21.5	27.1	26.4	25.2	24.6	19.9	20.8	19.5	17.6		245.1	280.5
INDUSTRIAL ^f	54.5	54.4	57.2	55.0	52.5	54.5	50.6	55.7	55.0	51.8	55.4		575.1	608.5
LOW-DENIER INDUSTRIAL ^g	5.0	5.0	5.8	2.8	2.5	5.4	2.5	2.9	5.5	2.7	2.7		52.5	52.8
CARPET	67.1	65.8	65.5	75.4	65.5	61.5	56.8	52.9	48.1	40.7	59.4		654.1	680.4
TEXTILE	34.7	50.6	58.4	47.5	50.1	47.5	51.7	54.8	55.8	55.0	52.5		587.2	605.1
POLYESTER	25.5	24.5	27.5	29.0	24.7	25.5	26.9	27.5	26.2	27.1	26.2		290.0	265.8
INDUSTRIAL ^f	2.1	2.1	2.5	2.9	2.7	2.5	2.5	1.9	2.5	2.4	2.2		26.1	27.4
LOW-DENIER INDUSTRIAL ^g	94.8	96.0	111.5	125.0	106.5	108.6	102.1	107.5	105.9	98.4	91.6		1144.0	1068.2
TEXTILE	50.0	55.8	57.4	55.5	50.8	52.0	55.5	54.2	51.9	50.1	51.0		594.2	577.0
OLEFIN ^h														
TOTAL NON-CELLULOSIC ABOVE ⁱ	316.7	316.0	343.2	360.4	326.6	324.8	306.6	317.0	306.7	286.2	279.0		3483.2	3465.8
STAPLE* TOW* FIBERFILL^j														
RAYON														
NYLON ^e	40.9	35.4	37.9	41.4	40.8	37.5	39.4	36.8	38.7	38.7	36.5		424.1	418.3
INDUSTRIAL ^f	70.7	67.5	74.0	80.0	74.8	69.2	62.2	52.8	44.9	41.8	40.9		678.7	664.9
ACRYLIC*MODACRYLIC	59.5	62.2	65.8	65.5	61.9	60.1	51.9	50.8	54.5	55.5	61.8		641.7	700.0
POLYESTER	208.0	211.1	202.5	245.0	218.0	211.0	212.8	252.9	225.4	214.4	206.2		2586.0	2289.4
OLEFIN*VINYLON	10.8	10.5	11.2	11.7	12.4	11.7	10.7	11.5	10.6	12.2	10.0		122.9	108.2
TOTAL NON-CELLULOSIC ABOVE	349.4	351.1	351.4	400.6	367.7	352.9	337.6	356.8	333.2	321.7	306.9		3829.3	3768.5
END-OF-MONTH STOCK														
YARN* MONOFILAMENTS														
ACETATE														
NYLON ^e	17.0	15.4	15.8	13.5	11.6	12.1	11.4	13.7	12.6	12.4	12.4		12.4	17.2
INDUSTRIAL ^f	57.5	57.0	55.7	50.7	42.5	41.2	45.8	58.5	57.2	58.7	55.4		55.4	25.5
LOW-DENIER INDUSTRIAL ^g	4.9	4.2	5.1	5.5	5.4	5.2	5.6	5.8	5.6	5.0	5.4		5.4	2.9
CARPET	57.7	58.2	58.5	55.4	50.4	59.5	47.9	64.9	72.4	80.4	74.9		74.9	52.0
TEXTILE	62.8	65.1	61.8	61.7	65.0	61.4	65.1	65.5	65.7	67.6	67.5		67.5	62.4
POLYESTER	23.7	23.1	21.5	20.0	25.7	24.7	24.1	22.7	22.6	20.2	22.8		22.8	21.9
INDUSTRIAL ^f	5.0	5.4	5.5	5.6	5.4	5.6	5.6	5.5	2.7	5.1	2.8		2.8	5.9
LOW-DENIER INDUSTRIAL ^g	100.2	104.1	87.5	67.5	72.5	70.0	89.4	84.1	84.0	95.4	99.0		99.0	90.0
TEXTILE	65.0	62.5	61.0	60.4	58.5	62.5	61.8	62.2	66.2	64.8	65.4		65.4	66.5
OLEFIN ^h														
TOTAL NON-CELLULOSIC ABOVE ⁱ	313.3	315.3	292.6	267.7	283.7	291.9	319.3	323.8	334.4	334.1	352.8		352.8	285.1
STAPLE* TOW* FIBERFILL														
RAYON														
NYLON ^e	24.2	25.1	29.3	28.1	25.4	23.7	23.2	25.7	27.3	25.9	29.2		29.2	28.2
INDUSTRIAL ^f	55.5	57.4	57.5	55.4	49.1	48.5	61.0	71.8	72.4	75.4	70.7		70.7	81.1
ACRYLIC*MODACRYLIC	76.5	76.5	74.5	68.5	67.1	65.8	67.8	64.2	64.6	66.7	70.4		70.4	64.7
POLYESTER	174.2	182.5	190.5	178.5	181.7	185.1	195.4	177.4	179.6	180.1	181.5		181.5	157.0
OLEFIN*VINYLON	16.0	16.9	16.2	15.4	15.2	15.5	16.7	17.9	20.0	21.0	25.8		25.8	17.1
TOTAL NON-CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.9	340.9	351.3	356.6	341.2	346.4		346.4	269.9
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.0	12.1	14.6	15.2	11.5	15.0	9.5	12.5	11.7	11.5			120.0	104.5
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.8	0.7	1.1	1.1	1.5			9.1	8.6
TOTAL RAW WOOL	11.8	12.9	15.5	16.0	12.5	15.8	10.0	15.4	12.8	12.6			129.1	115.1
RAW COTTON	217.4	245.4	247.1	258.1	220.8	244.4	195.1	255.7	257.7	246.7	202.9		2529.5	2827.7

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*tow data are available annually only; see page 21 of the February issue.

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The names of U.S. producers of the man-made fibers, together with the products made, are listed on pages 147-152. The corresponding list of world producers is on pages 93-108. Individual producers' names are not shown in this index unless there have been news items concerning them during the year.

Monthly U.S. fiber shipments, stock, etc., are shown in the table "Selected U.S. Monthly Textile Fiber Data," which is usually found on the last page of each *Organon* issue. In the following index, this is called the "Monthly Table."

Each issue of the *Organon* contains one or more principal topics, e.g., the World Man-Made Fiber Survey in June. Following is a brief outline of major subjects covered in the 1981 issues. The numbers in parentheses are the pages of each month's issue.

JANUARY Commodity Credit Corporation's Annual Report (1-16)
FEBRUARY Annual Review of the U.S. Man-Made Fiber Producing Industry, incl. Production, Shipments, Stock, etc.; Broad Woven Goods Production (17-52)

MARCH U.S. Mill Consumption and Domestic Consumption of Textile Fibers; Imports, Exports & Balance (53-88)
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AUGUST Quarterly U.S. Man-Made Fiber Review: Broad Woven Goods Production (129-144)
SEPTEMBER Directory of U.S. Man-Made Fiber Producers: First Half; Man-Made Fiber Import/Export Review (145-160)
OCTOBER World Cotton Review (161-180)
NOVEMBER Textile Fiber End Use Survey: Quarterly U.S. Man-Made Fiber Review: Estimates of Apparel Market in U.S. (185-208)
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Textile Organon

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Monthly Review

HIGHLIGHTS

Shipments of non cellulosic fibers were marginally lower in December than in November. Last month's shipments totaled 585.0 million pounds as compared with 585.9 million pounds in November. December deliveries of non cellulosic yarn totaled 266.7 million pounds and non cellulosic staple+tow shipments were 318.3 million pounds.

Shipments for the year 1981 totaled 7,898.2 million pounds, 1% less than 1980's total of 7,988.1 million pounds.

NON-CELLULOSIC SHIPMENTS OFF MARGINALLY IN DECEMBER

December shipments of non cellulosic fibers (except saran and spandex), at 585.0 million pounds, were marginally below the 585.9 million pounds shipped during November. Shipments of 7,898.2 million pounds for the year 1981 were 1% less than 1980 shipments of 7,988.1 million pounds.

Non cellulosic yarn+monofilament deliveries (except saran and spandex) totaled 266.7 million pounds, 4½% less than November shipments of 279.0 million pounds and their lowest level since June 1980. For the year, deliveries of 3,749.9 million pounds were 1½% less than 1980 shipments of 3,815.8 million pounds.

Shipments of non cellulosic staple+tow during December 1981 were 318.3 million pounds, an increase of 3½% from the 306.9 million pounds shipped during November. However, for 1981, shipments of 4,148.3 million pounds were ½% less than the 4,172.3 million pounds delivered during 1980.

The only fibers to post year-to-year shipment gains were: polyester industrial & textile yarn; olefin yarn; rayon staple+tow; polyester staple+tow and olefin+vin-

ylon staple+tow.

DECEMBER AND NOVEMBER SHIPMENTS COMPARED

Following is a comparison of total December shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with November (million pounds), and the percentage change, respectively: nylon industrial 27.8 & 33.4 & -17%; low denier industrial 2.6 & 2.7 & -3½%; carpet 42.9 & 39.4 & +9%; textile 31.1 & 32.5 & -4½%; polyester industrial 23.1 & 26.2 & -12%; low denier industrial 1.5 & 2.2 & -32%; textile 85.3 & 91.6 & -7%; olefin 52.4 & 51.0 & +2½% and the total of these fibers 266.7 & 279.0 & -4½%.

Similarly, for non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 42.8 & 40.9 & +4½%; acrylic+modacrylic 52.8 & 49.8 & +6%; polyester 212.8 & 206.2 & +3%; olefin 9.9 & 10.0 & -1% and the total 318.3 & 306.9 & +3½%.

CELLULOSIC SHIPMENTS OFF 10% IN DECEMBER

Shipments of acetate yarn+monofilaments and rayon staple+tow continued their decline of recent months. December deliveries of these fibers totaled 48.6 million pounds, 10% less than the 54.2 million pounds shipped in November. For the year 1981, deliveries were 717.8 million pounds, 4½% less than year-ago levels.

Shipments of acetate yarn last month totaled 16.0 million pounds, 9% less than the 17.6 million pounds shipped in November and their lowest monthly shipments since January 1975. For 1981, acetate yarn deliveries totaled 261.1 million pounds, 14% less than 1980.

Rayon staple+tow shipments during December totaled 32.6 million pounds, 11% less than the previous month. However, for the year 1981, deliveries of 456.7 million pounds were 1% more than 1980 shipments of 451.7 million pounds.

DECEMBER STOCKS DECLINED 5%

Stocks of non-cellulosic fibers (except saran and spandex) totaled 667.4 million pounds as of the end of December, a 5% decline from the 701.6 million pounds on hand as of November 30th, 1981. For non-cellulosic yarn+monofilaments (except saran and spandex) stocks declined 4½% (to 337.7 million pounds) and for non-cellulosic staple+tow end-of-month inventory totaled 329.7 million pounds, a 5½% decline from a month earlier.

Both acetate yarn+monofilaments and rayon staple+tow stocks rose in December. As of December 31st, 1981, acetate yarn stocks were 14.3 million pounds and rayon staple+tow stocks were 31.1 million pounds.

1981 AND 1980 SHIPMENTS COMPARED

Following is a comparison of total 1981 shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with 1980 (million pounds), and the percentage change, respectively: nylon industrial 402.9 & 446.6 & -10%; low denier industrial 35.1 & 35.8 & -2%; carpet 677.0 & 756.9 & -11%; textile 418.3 & 447.6 & -6½%; polyester industrial 313.1 & 294.3 & +6½%; low denier industrial 27.6 & 29.4 & -6%; textile 1,229.3 & 1,172.8 & +5%; olefin 646.6 & 632.4 & +2% and the total of these fibers 3,749.9 & 3,815.8 & -1½%.

For non-cellulosic staple+tow, the corresponding data are: nylon 721.5 & 743.1 & -3%; acrylic+modacrylic 694.5 & 771.1 & -10%; polyester 2,598.8 & 2,539.4 & +2½%; olefin+vinylon 133.5 & 118.7 & +12% and the total 4,148.3 & 4,172.3 & -½%.

For acetate yarn+monofilaments the figures are 261.1 & 301.9 & -14% and for rayon staple+tow 456.7 & 451.7 & +1%.

Thus total 1981 shipments of man-made fibers (excluding saran, spandex and textile glass) totaled 8,616.0 million pounds, 1½% less than the 8,741.7 million pounds shipped during 1980.

COTTON CONSUMPTION LOWEST SINCE 1934

1981 mill consumption of cotton totaled 2,703 million pounds, 12% less than the 3,064 million pounds in 1980 and the lowest mill consumption since 2,660 million pounds were consumed in 1934.

December mill consumption of cotton totaled 175.3 million pounds, 13% below November and the lowest monthly figure since September 1934 when some 140 million pounds were consumed by U.S. mills.

U.S. MILL CONSUMPTION DECLINED 3½% IN 1981

Preliminary estimates by the Textile Economics Bureau, Inc., put U.S. mill consumption at 11,590 million pounds in 1981 as compared with 11,982 million

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Textile Organon

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BROAD WOVEN GOODS PRODUCTION MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
COTTON FABRICS	1226.3	1182.3	986.5	1061.5	4456.6	971.5	947.0					
100% COTTON FABRICS	28.5	28.0	21.8	17.2	95.5	19.5	20.8					
MIXED COTTON & ALLEYS FABRICS	208.7	205.8	150.4	181.1	746.0	181.6	178.4					
PRINTED COTTON FABRICS	400.1	455.0	470.2	419.7	1745.0	352.0	334.7					
TRIMMINGS	167.2	170.2	151.0	148.0	636.4	140.1	155.4					
TEXTILE WASTE & DISHABILITIES	120.5	120.1	106.5	122.5	475.6	127.8	129.0					
BLANKETING & OTHER NAUPEL FABRICS	52.0	27.1	24.2	27.8	131.0	25.0	27.4					
FINE COTTON FABRICS	54.0	50.8	29.1	17.5	111.4	15.7	16.0					
CORDE ROUS	125.0	118.2	95.8	87.8	416.8	72.0	75.4					
UPHOLSTERY & TAPESTRY	8.0	8.7	8.5	8.7	33.9	4.0	4.8					
VELVETS	8.9	4.1	8.1	5.0	15.4	2.1	5.1					
DRAPERY & BEDSPREAD FABRICS	20.2	20.8	11.8	14.7	67.5	21.4	16.9					
ALL OTHER FABRICS	0.0	8.5	0.0	18.1	26.6	5.0	12.0					
WOOLEN & WORSTED FABRICS^a	58.1	59.8	41.1	43.8	202.8	58.4	57.7					
MEN'S & BOYS' CLOTHING	32.1	30.8	19.2	20.5	102.6	35.0	31.5					
WOMEN'S & CHILDREN'S CLOTHING	19.2	22.8	10.2	10.0	62.2	20.1	21.9					
NONAPPAREL FABRICS	6.8	7.2	5.7	6.4	26.1	3.3	4.3					
MAN-MADE FABRICS	2780.8	2663.3	2516.9	3011.5	10972.5	2985.2	2971.0					
100% FILAMENT YARN FABRICS												
100% RAYON	0.5	0.7	0.0	7.1	20.3	7.1	6.5					
COMBINATIONS (RAYON & COTTON)	12.4	12.5	11.0	14.0	50.0	14.0	14.0					
100% NYLON	100.0	150.7	152.4	140.0	602.0	141.8	150.0					
100% POLYESTER	248.0	276.4	258.8	300.7	1083.9	284.5	300.0					
COMBINATIONS (CHIEFLY POLYESTER)	25.9	22.4	24.0	21.2	93.5	21.5	20.0					
TEXTILE GLASS	135.2	97.9	85.5	93.2	411.8	100.0	95.1					
100% ACETATE	81.5	91.5	87.5	98.5	359.0							
OTHER	419.8	289.0	302.5	301.7	1513.0	400.5	435.4					
100% SPUN YARN FABRICS & BLENDS												
RAYON & COTTON	90.2	90.1	84.8	100.5	365.6	174.1	170.8					
ACRYLIC-MODACRYLIC	5.0	4.5	5.2	4.7	19.4	2.0	4.5					
NYLON	5.2	0.1	5.2	6.8	22.8	8.0	12.5					
100% POLYESTER	58.5	51.8	55.5	54.8	219.6	78.5	77.0					
POLYESTER WITH COTTON	1117.4	1100.5	1015.0	1110.0	4342.9	1105.8	1090.5					
POLYESTER WITH WOOL	11.4	11.1	15.4	14.5	52.4	12.0	12.5					
POLYESTER WITH RAYON	147.7	140.4	141.2	107.0	536.3	177.2	197.7					
POLYESTER WITH OTHER FIBERS	16.0	7.5	14.5	15.4	53.4	15.5	15.0					
BLANKETING ^b	20.9	51.5	51.0	28.7	152.1	24.0	30.8					
ALL OTHER	12.5	10.1	9.0	12.4	43.9	4.0	4.0					
COMBINATIONS & MIXTURES ^c												
FILAMENT RAYON OR ACETATE WARP	14.2	15.0	18.4	28.8	76.4	51.4	55.0					
FILAMENT POLYESTER WARP	71.2	62.6	64.5	87.7	286.0	62.5	70.1					
OTHER FILAMENT WARP	8.4	4.0	2.2	5.1	19.7	5.8	2.0					
OTHER	121.8	88.0	75.5	97.5	382.8	129.5	135.5					
SPECIALTY FABRICS												
DRAPERY & BEDSPREAD	54.1	51.7	48.9	45.7	198.4	65.0	60.4					
SILK	2.0	1.5	1.5	1.5	6.5	1.5	1.6					
VELVETS	4.1	4.5	5.0	5.0	18.6	5.8	5.9					
UPHOLSTERY & TAPESTRY	29.9	25.0	18.2	26.0	99.1							
OTHER ^d	2.7	5.0	2.8	2.2	10.7	28.9	50.9					
TOTAL BROAD WOVEN FABRICS ABOVE	4065.2	3905.4	3544.5	4116.8	15631.9	4015.1	3975.7					

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ 22T*

a. Felts are not included.

b. Acrylic-modacrylic and polyester.

c. Includes filament & spun yarn fabrics.

d. 100% or chiefly man-made fibers, chief fiber not specified. Also includes small poundages of tie-twisted paper yarn and girdle & swimwear fabrics.

pounds in 1980, a decline of 3½%. The decline for man-made fibers was only ½% as compared with a 12% drop for cotton and a 14% increase in wool consumption.

	1981	1980	%CHANGE
Man-Made	8,734	8,784	-½%
Cotton	2,703	3,064	-12%
Wool	153	134	+14%
	11,590	11,982	-3½%

Thus in 1981, man-made fibers had a 76% share of U.S. mill consumption, cotton a 23% share and wool a 1% share. For 1980, the corresponding figures are 73% for man-made fibers, 26% for cotton and 1% for wool.

TOLARAN FIBERS PURCHASES POLYESTER FIBER PLANT

Tolaran Fibers, Inc., a Singapore-based subsidiary of

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION
MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT YARN FABRICS	975.5	955.7	908.2	1145.2	9980.6	1035.9	999.9					
100% FILAMENT ACETATE	81.5	91.5	87.5	96.5	358.0	a	a					
TARTAN (PLAIN WEAVE)												
75 DENIER WARP	15.0	14.0	10.1	8.7	40.8	8.4	7.8					
150 DENIER WARP	0.4	7.0	0.0	12.7	40.8	0.0	13.2					
ALL OTHER	15.7	10.0	31.2	15.5	58.4	86.5	40.0					
SATINS	12.0	20.0	0.0	12.5	55.5	a	a					
ALL OTHER ^b	33.3	28.8	25.7	51.1	139.0	a	a					
FILAMENT COMB. (FILAMENT ACETATE)	12.4	12.5	11.0	18.0	54.0	14.1	14.0					
100% FILAMENT RAYON	6.8	6.7	0.0	7.1	20.1	7.1	0.0					
TWILLS	4.4	5.1	4.0	0.1	20.0	0.4	5.8					
ALL OTHER ^c	1.0	0.0	1.1	1.0	3.6	0.7	0.7					
100% FILAMENT NYLON	100.0	100.7	102.1	100.0	393.0	141.9	100.0					
TARTAN (PLAIN WEAVE)												
70 & 75 DENIER	11.0	50.0	0.0	0.0	22.0							
ALL OTHER	59.0	28.0	22.0	23.4	104.0	80.5	73.4					
TWILLS & SATINS	8.8	4.0	5.1	1.0	14.7							
MARQUEES, NYLONS & OTHER SHEETS												
INDUSTRIAL TYPE	106.8	80.1	48.4	85.5	241.8	50.0	52.0					
ALL OTHER	7.0	1.2	0.5	4.7	24.1	4.5	5.0					
100% FILAMENT POLYESTER	248.0	278.3	298.8	503.7	1080.7	264.3	503.0					
TEXTURE YARN												
100% COARSE (20/30)	33.0	14.0	32.0	32.0	200.0	30.0	30.0					
40/50 & OVER (20/30)	149.4	105.3	132.7	185.0	645.0	170.1	180.0					
NONTEXTURE YARN												
INDUSTRIAL TYPE	17.4	14.8	12.5	18.1	57.8	14.9	0.7					
MARQUEES, NYLONS & OTHER SHEETS	45.8	55.7	54.2	50.7	140.0	55.0	45.0					
TARTAN	12.0	12.0	0.0	0.0	42.1	7.0	4.8					
ALL OTHER						5.2	5.4					
FRAGMENT COMB. (FILAMENT POLYESTER)	23.0	22.4	24.0	21.2	90.4	21.5	20.0					
GLASS FIBER	118.2	97.0	88.5	94.2	392.8	100.0	94.1					
INDUSTRIAL												
WOOLEN/ROVING & WORSTED	13.0	15.1	0.0	8.0	34.7	0.8	10.3					
ALL OTHER ^d	101.0	84.8	70.1	86.0	347.1	99.8	82.8					
OTHER 100% FILAMENT YARN ^e	319.8	280.0	302.8	401.7	1575.4	400.1	570.8					

See footnotes on opposite page.

Ansean Interest, Ltd., of Hong Kong, has purchased a polyester fiber plant in Andersonville, NC, from Meinhard-Commercial, Inc.

The plant was formerly owned by Clarence L. Meyers & Company Inc., and was acquired last year by Meinhard. It has been leased by Tolaran since January 4th, 1982.

The new owners will concentrate on polyester POY and polypropylene yarns, particularly specialty yarns, for both domestic and export sales.

BROAD WOVEN GOODS PRODUCTION

During 1980 the Census Bureau changed from collecting broad woven data in linear yards to collecting them in square yards. The tables on pages 3-5 show 1980 and the first two quarters of 1981 data on the basis of million square yards, the way the Census Bureau is currently collecting broad woven data. The tables on pages 7-9 show similar broad woven data for 1979 and 1980 on a million linear yard basis.

Cotton broad woven fabric production during the second quarter of 1981 totaled 947.0 million square yards, a decline of 2½% from first quarter 1981 production and

20% less than the corresponding 1980 period. For the first six months of 1981, production totaled 1,918.5 million square yards, 20% less than the 2,408.6 million square yards produced during the first half of 1980.

As compared with the second quarter of 1980, duck & allied fabrics and blanketing were the only categories to post a gain in the latest quarter. On a percentage basis, sheeting was off 13%, print cloth was off 27%, denims were off 22% and corduroys were off 35% as compared with second quarter 1980 production.

Production of woolen & worsted fabrics in the latest quarter totaled 57.7 million square yards, 1% less than first quarter 1981 production and 3½% below that produced during the second quarter of 1980. For the first six months of 1981, production of woolen & worsted fabrics totaled 116.1 million square yards as compared with 117.9 million square yards during the first half of 1980.

Man-made fiber broad woven fabric production during the second quarter of 1981 totaled 2,971.0 million square yards, ½% less than the 2,985.2 million square yards produced the previous quarter, but 12% more than second quarter 1980 production of 2,663.3 million square yards. For the year to date, man-made fiber broad

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION (Continued)
 MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% SPUN YARN FABRICS & BLENDS	1498.9	1455.4	1575.2	1574.1	5899.6	1604.0	1627.9					
SPUN RAYON/ACETATE ^f	386.2	380.1	384.8	383.3	1534.4	374.1	375.8					
SPUN NYLON/ACETATE ^f	4.0	4.5	4.2	4.7	17.4	2.9	4.3					
SPUN NYLON	5.2	5.3	5.2	5.5	21.2	8.0	12.5					
SPUN POLYESTER ^f	96.5	91.8	94.6	94.8	377.7	78.3	77.0					
PRINTED ^g CLOTHS	138.6	135.5	136.1	132.0	542.2	131.2	144.7					
ALL OTHER	42.4	45.4	44.7	42.2	174.7	37.1	38.4					
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^f	111.1	110.5	105.0	111.0	437.6	110.8	109.3					
RAYON ^h	74.2	66.5	65.6	74.8	281.1	77.2	72.4					
NYLON ^h	415.9	420.1	473.7	492.9	1802.6	404.8	393.3					
OTHER ^h	129.4	123.9	89.0	93.4	435.7	80.4	89.8					
OTHER ^h	130.0	127.5	21.2	24.0	302.7	17.0	18.0					
OTHER ^h	11.4	11.0	11.4	12.2	46.0	12.8	11.4					
OTHER ^h	12.8	12.0	14.2	15.4	54.4	14.2	14.1					
OTHER ^h	95.7	98.4	103.9	101.9	399.9	90.2	94.7					
PRINTED ^g CLOTHS	186.2	185.2	182.8	184.2	738.4	187.1	172.1					
ALL OTHER	12.1	15.4			27.5							
OTHER ^h	24.1	22.9	22.0	24.0	93.0	15.8	19.8					
OTHER ^h	30.0	28.0	31.8	30.2	120.0	29.0	30.8					
OTHER ^h	62.1	56.8	68.0	67.0	253.9	68.1	60.8					
YARN ^h	77.0	72.0	68.1	66.5	283.6	62.2	64.5					
ALL OTHER ^h	90.7	87.8	90.9	74.0	343.4	69.5	66.0					
SPUN POLYESTER BLENDS WITH RAYON ^f	11.4	11.1	15.4	14.8	52.7	12.0	12.8					
SPUN POLYESTER BLENDS WITH RAYON ^f	147.7	140.4	141.2	137.0	566.3	177.2	197.7					
RAYON ^h	80.8	80.8	88.0	100.4	349.9	115.8	118.0					
OTHER ^h	18.8	17.4			36.2							
ALL OTHER ^h	49.1	48.2	54.2	46.0	197.5	61.4	58.8					
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^f	10.0	7.5	14.5	15.4	47.4	15.3	15.0					
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^f	11.8	11.7	14.2	18.0	55.7	10.2	18.0					
SPUN NYLON/ACETATE ^f	18.1	19.8	17.4	15.7	71.0	14.4	10.8					
ALL OTHER 100% SPUN YARN FABRICS & BLENDS	12.5	10.1	9.0	12.4	43.9	4.0	4.0					
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARN FABRICS	215.6	170.9	160.4	216.9	763.8	246.3	246.4					
FILAMENT RAYON/ACETATE WARP	14.2	15.0	18.4	28.8	76.4	51.4	53.0					
FILAMENT POLYESTER WARP	71.2	62.0	64.5	87.7	285.4	62.3	76.1					
ALL OTHER FILAMENT WARP	8.4	4.7	2.2	5.1	18.4	5.5	2.0					
SPUN WARP WITH FILAMENT FILLING	101.1	98.6			513.2							
COMBINATION FILAMENT & SPUN WARP OR FILLING	20.7	20.0			60.8							
OTHER SPECIALTY FABRICS	92.8	85.3	75.1	77.3	328.5	99.0	96.8					
DRAPERY & BEDSPREAD ^j	54.1	51.7	48.0	43.7	197.5	65.0	60.4					
JACQUARD WOVEN	2.2	1.5	1.5	1.5	6.7	2.8	5.3					
OTHER WOVEN	51.9	50.2	47.4	42.4	191.9	62.2	57.1					
SEAL	2.0	1.5	1.5	1.5	6.1	1.5	1.0					
VELVETS, FURISHES & OTHER FILL	4.1	4.5	4.9	4.9	18.4	4.8	4.9					
UPHOLSTERY & TAPESTRY	29.9	23.0	18.2	20.0	91.1							
ALL OTHER ^k	2.7	3.0	2.8	2.2	10.7	28.0	30.0					
TOTAL MAN-MADE FIBER FABRICS ABOVE	2780.8	2663.3	2516.9	3011.5	10972.5	4015.1	3975.7					

SOURCE: U.S. Census Bureau, *Current Industrial Reports MQ-22T*.

a. Included in Other 100% Filament Yarn below.
 b. Includes marquisettes, ninons, sheers, industrials and twills.
 c. Includes marquisettes, ninons, sheers, industrials, taffetas and satins.
 d. Includes household fabrics (marquisettes, drapery, upholstery, etc.).
 e. Includes filament combinations, chiefly rayon and saran & olefin. Also includes 100% filament acetate (except taffetas) for 1981.

f. Except blanketing.
 g. Includes carded broadcloth.
 h. Includes overdyed fabrics.
 i. Includes seersucker and piece-dyed pattern fabrics.
 j. Except glass.
 k. Includes tie, twisted paper yarn and girdle & swimwear fabrics.

woven fabric production totals 5,956.2 million square yards, 9 1/2% above the 5,444.1 million square yards produced during the first six months of 1980.

Most categories of man-made fiber broad woven

fabrics are at levels above second quarter 1980. The largest percentage increases were shown by rayon & acetate spun yarn fabrics, up 96%; nylon spun yarn fabrics, up 105%; and polyester/rayon blend fabrics, up

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS^a

MILLION POUNDS

YARN	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIACTATE NYLON	51.3	28.0	23.0	27.2	113.0	54.3	59.4	27.0	51.0	120.7	55.4	50.0
POLYESTER	100.8	98.8	87.4	100.5	366.8	104.4	88.2	81.7	94.0	368.0	90.5	87.2
TEXTILE GLASS	120.0	110.5	102.0	107.2	439.2	124.8	110.8	103.0	129.4	467.0	130.0	125.0
CELPHAN & SARAN	42.5	41.8	40.0	42.0	166.0	55.8	40.7	45.8	57.7	190.0	42.0	39.0
ALL OTHER	0.5	0.7	0.0	0.4	1.6	7.0	0.7	7.0	11.0	25.0	10.5	8.2
TOTAL FILAMENT YARN ABOVE	376.2	359.7	322.5	374.6	1433.0	395.7	338.8	321.6	401.3	1457.4	420.8	388.6
SPUN YARN												
100% COTTON	875.4	861.0	855.1	845.5	3437.0	864.8	848.0	811.7	831.2	3355.0	822.2	851.2
100% WOOL	11.0	10.0	9.7	8.8	39.5	11.4	10.0	9.5	8.4	39.3	12.5	12.5
100% ACRYLIC	0.2	0.0	0.8	0.4	1.4	0.7	0.0	7.4	0.5	8.6	0.0	0.0
100% POLYESTER	49.8	47.0	43.0	42.1	181.9	45.4	45.1	40.8	47.8	179.1	40.5	40.5
RAYON AND COTTON ACETATE ^b	45.0	44.7	20.8	29.1	139.2	20.7	22.0	21.4	24.0	88.1	27.8	20.0
POLYESTER COTTON BLENDS ^c	810.8	811.0	790.5	824.2	3236.0	850.0	855.5	824.5	855.2	3385.0	830.5	824.7
POLYESTER WOOL BLENDS ^c	6.0	0.1	6.2	8.7	21.0	9.1	0.0	6.8	9.0	24.9	6.4	6.8
POLYESTER RAYON BLENDS ^c	45.4	45.2	41.0	43.8	175.0	45.4	40.4	40.0	45.7	171.5	47.8	40.5
TOTAL SPUN YARN ABOVE	850.8	812.5	753.5	790.4	3187.0	854.1	824.6	744.5	783.0	3206.0	783.1	787.7
ALL OTHER YARNS^d	22.9	22.2	21.0	20.5	86.6	28.6	24.0	24.5	31.5	108.6	28.7	28.0
GRAND TOTAL	1229.9	1194.4	1096.8	1185.5	4706.6	1278.4	1187.4	1090.4	1215.8	4772.0	1252.6	1204.3

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and or

acetate, cotton blends, regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

TIRE CORD & TIRE CORD FABRICS PRODUCTION

MILLION POUNDS

TYPE OF FABRIC	1979					1980					1981	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
TIRE CORD & TIRE FABRICS												
NYLON	78.3	70.0	65.1	80.5	293.9	76.0	58.2	57.0	72.5	263.7	80.9	75.7
POLYESTER	10.0	5.4	4.0	38.9	58.3	47.0	51.4	45.0	48.5	191.9	55.2	54.9
RAYON	0.7	7.2	4.8	5.1	27.8	6.1	5.8	8.1	7.9	27.9	4.0	5.8
GLASS	7.0	6.1	4.5	5.4	23.0	5.1	4.1	4.1	4.1	19.4	5.1	6.4
CHLORIDE & OTHER ^a	9.5	10.0	7.4	7.0	33.9	7.7	6.4	7.0	8.2	29.3	11.1	7.7
TOTAL TIRE CORD & TIRE CORD FABRICS	162.5	148.6	120.4	134.7	566.2	141.9	105.4	108.3	136.9	492.5	162.3	148.5

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Includes a nominal amount of cotton and some steel.

41%. Polyester cotton blend fabric production, at 1,096.3 million square yards, was 1/2% below year ago levels.

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS

During the second quarter of 1981, broad woven fabric mills consumed 1,204.3 million pounds of yarn, according to the U.S. Census Bureau. This represents a decrease of 2 1/2% from first quarter 1981 consumption of 1,252.6 million pounds, but 1 1/2% more than the 1,187.4 million pounds these mills consumed during the corresponding 1980 quarter.

Filament yarn consumption during the second quar-

ter of 1981 totaled 388.6 million pounds, 7 1/2% below the 420.8 million pounds consumed during the first quarter of 1981 but 15% above the 338.8 million pounds used during the second quarter of 1980. Consumption of polyester and cellulosic filament yarns were the only categories to increase between the first and second quarters of 1981. Consumption of olefin, saran and other filament yarns declined 23% (to 82.2 million pounds) between the first and second quarters of this year.

April-June 1981 consumption of spun yarn, at 787.7 million pounds, though slightly above the 783.1 million pounds consumed the previous quarter, was 4 1/2% below the 824.6 million pounds used during the corresponding 1980 quarter. Except for cellulosic spun yarn and

BROAD WOVEN GOODS PRODUCTION

MILLION LINEAR YARDS

TYPE OF FABRIC	1979					1980				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
COTTON FABRICS	1017.7	998.3	914.4	927.1	3857.5	1006.6	971.6	809.3	875.7	3663.2
WEEK & ALLIED FABRICS	25.8	24.1	22.5	25.8	95.5	21.4	19.2	15.9	15.2	69.7
SHEETING & ALLIED FABRICS	165.8	165.8	154.1	144.0	628.7	150.0	140.9	111.6	125.8	568.3
PRINTED COTTON FABRICS	890.1	875.0	828.0	827.5	3421.5	865.2	854.9	700.0	832.3	3352.4
WORKING, WASH & DRESS COTTON	157.9	155.4	125.5	120.7	524.5	130.1	122.9	109.6	125.0	487.6
BLANKETS & BLANKETING	5.4	4.8	4.7	5.4	20.5	5.9	5.5	5.8	6.2	23.4
OTHER NAPPED FABRICS	18.7	20.1	17.1	17.0	72.9	17.8	14.1	11.4	15.5	56.6
FINE COTTON FABRICS	24.1	24.4	22.6	26.1	97.2	24.5	21.9	20.7	12.5	79.6
CORDS/ROPS	70.5	70.2	69.0	75.5	285.0	80.7	78.5	65.5	50.9	290.2
UPHOLSTERY & TAPESTRY	1.9	2.1	1.9	2.4	8.5	2.1	3.4	2.0	2.5	9.8
VELVETS	3.1	3.0	2.0	3.0	11.1	3.4	2.9	2.6	2.6	11.5
DRAPERY & BEDSPREAD FABRICS	14.7	15.4	15.2	12.7	54.0	15.1	15.4	7.5	9.8	45.8
CARDING/COLORFAST FABRICS	150.7	158.1	152.9	156.8	624.5	182.7	188.2	166.9	172.8	714.5
ALL OTHER FABRICS	4.0	5.5	5.5	5.4	14.2	5.7	5.8	5.1	5.4	14.0
WOOLEN & WORSTED FABRICS^a	33.8	31.6	24.9	25.8	116.1	34.1	35.1	24.2	25.7	119.1
MEN'S & BOYS' CLOTHING	15.8	12.4	9.0	11.5	46.0	18.9	17.9	11.4	12.2	60.4
WOMEN'S & CHILDREN'S CLOTHING	15.9	15.7	11.1	9.8	48.5	11.5	15.4	9.7	10.1	44.7
NONAPPROPRIATE FABRICS	6.0	5.5	4.8	4.7	21.6	5.7	5.8	5.1	5.4	14.0
MAN-MADE FABRICS	1701.6	1681.5	1559.6	1642.6	6585.3	1761.6	1681.3	1603.2	1897.2	6943.3
100% FILAMENT YARN FABRICS										
100% ACETATE	75.1	80.5	78.7	78.7	315.0	61.5	68.7	65.5	74.4	270.1
COMBINATIONS, CHIEFLY ACETATE	8.2	8.6	9.4	9.2	35.4	8.9	9.0	8.4	10.0	36.3
100% RAYON	5.9	4.1	5.9	4.2	16.1	5.4	5.7	5.2	6.3	22.6
100% NYLON	112.0	107.4	105.7	100.4	429.5	114.4	108.5	92.0	101.2	416.1
100% POLYESTER	151.9	148.0	136.6	142.5	578.8	151.8	148.1	156.9	181.5	638.1
COMBINATIONS, CHIEFLY POLYESTER	15.2	17.1	15.4	11.0	59.5	12.4	11.7	12.4	11.0	47.5
TEXTILE GLASS	80.5	82.0	79.4	87.6	335.5	101.1	85.5	70.8	87.2	344.4
OTHER	158.6	140.9	152.0	200.0	652.1	173.1	154.2	172.9	233.3	733.5
100% SPUN YARN FABRICS & BLENDS										
100% RAYON & ACETATE	25.6	25.5	20.1	20.8	89.8					
RAYON & ACETATE BLENDS						81.4	78.5	75.1	148.9	381.7
WITH OTHER FIBERS	65.9	61.0	58.2	61.9	245.0					
ACRYLIC & MODACRYLIC	4.5	5.0	1.6	2.9	12.0	2.4	2.7	5.1	5.2	11.4
NYLON	1.5	1.6	1.5	1.9	6.5	3.2	5.8	5.5	5.8	14.1
100% POLYESTER	48.0	44.6	58.7	57.5	198.6	52.0	28.8	29.5	50.2	120.5
POLYESTER WITH COTTON	656.2	649.4	598.0	586.5	2489.9	666.7	655.2	607.6	662.8	2590.5
POLYESTER WITH WOOL	11.5	10.2	7.8	7.4	36.9	6.9	6.7	8.0	8.8	30.4
POLYESTER WITH RAYON	115.8	116.4	90.4	91.0	411.6	112.5	106.5	108.9	118.0	445.7
POLYESTER WITH OTHER FIBERS	11.2	11.1	6.6	8.6	37.5	12.6	5.7	11.0	11.8	41.1
BLANKETING ^b	17.5	18.0	16.2	16.5	67.8	16.2	17.1	16.8	16.1	66.2
ALL OTHER	9.2	8.9	8.4	8.8	35.4	8.5	6.8	6.0	8.5	29.6
COMBINATIONS & MIXTURES ^c										
FILAMENT RAYON OR ACETATE WARP ^d	11.5	12.0	11.0	12.4	46.7	10.0	10.7	12.2	21.2	54.1
FILAMENT POLYESTER WARP ^e	43.4	35.5	32.5	40.9	142.5	41.8	36.7	39.0	50.5	167.8
OTHER FILAMENT WARP ^e	5.5	4.5	5.0	5.2	16.0	4.8	2.7	1.2	1.8	10.5
OTHER	32.0	31.6	30.9	45.9	138.4	65.4	68.5	41.4	51.9	207.0
SPECIALTY FABRICS										
DRAPERY & BEDSPREAD	56.6	32.8	31.6	32.2	155.2	39.6	37.9	37.0	31.0	145.5
SILK	0.2	0.2	0.1	0.2	0.7	1.9	1.1	1.2	1.4	5.6
UPHOLSTERY & TAPESTRY	22.9	22.7	18.7	20.6	84.9	21.2	16.4	14.0	17.4	69.0
VELVETS	5.2	5.2	2.8	5.0	12.2	5.7	5.8	5.4	5.4	14.5
OTHER SPECIALTY ^f	2.8	2.9	2.8	2.4	10.5	2.6	2.9	2.6	2.0	10.1
TOTAL BROAD WOVEN FABRICS ABOVE	2753.1	2711.4	2498.9	2595.5	10558.9	2802.3	2688.0	2436.7	2798.6	10725.6

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Felts are not included.

b. Acrylic, modacrylic and polyester.

c. Includes filament & spun yarn fabrics.

d. Only acetate for 1979.

e. Contains rayon for 1979.

f. 100% or chiefly man made fibers; chief fiber not specified. Also includes small poundages of tie, girdle & swimwear and twisted paper yarn fabrics.

polyester/cotton blend yarn, all other spun yarn categories recorded consumption gains during the second quarter of 1981 as compared with the first quarter.

BROAD WOVEN CONVERSION FACTORS

The table on page 10 shows the linear yards/square yards and square yards/linear yards conversion factors

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION MILLION LINEAR YARDS

TYPE OF FABRIC	1979					1980				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
100% FILAMENT YARN FABRICS	591.2	588.6	579.1	640.6	2399.5	628.6	611.2	584.1	704.7	2528.6
100% FILAMENT ACETATE	78.1	80.5	76.7	76.7	313.0	61.5	58.7	65.9	73.4	259.5
TAFETAS (PLAIN WEAVE)										
75 DENIER WARE	12.7	13.6	12.9	14.3	53.5	10.5	12.1	9.2	7.3	49.1
PROFINDER WARE	11.5	17.0	14.2	14.0	56.7	0.0	9.0	7.7	8.3	25.0
ALL OTHER	7.3	12.2	13.2	8.8	29.5	10.5	18.1	29.0	28.0	75.6
SATINS										
75 DENIER WARE	24.3	23.0	23.6	21.7	92.6	8.4	14.9	9.3	0.0	33.6
ALL OTHER	10.4	10.3	7.7	9.0	37.4					
ALL OTHER	9.8	15.3	13.0	14.0	52.1	25.0	22.9	20.3	23.1	91.3
FILAMENT COMB. CORDILLACETATE	8.2	8.0	7.4	8.2	31.8	8.0	10.0	8.4	10.0	36.4
RIFFLE YARN	2.0	2.5	2.5	3.7	10.7	2.0	2.9			7.9
CRITTE ^b & CRITTE SATINS	1.2	1.3	1.4	1.0	4.9	1.3	1.1	0.4	10.0	3.8
ALL OTHER										
100% FILAMENT RAYON	5.5	4.7	3.5	4.2	18.0	8.4	8.7	8.2	6.4	32.7
PRODS	2.5	2.0	1.0	1.0	6.5	1.0	1.4	1.4	1.0	4.8
TAFETAS (PLAIN WEAVE)	0.6	0.7	0.7	0.8	2.8	0.7	1.2	0.8	0.7	3.4
ALL OTHER	0.6	0.6	1.2	0.4	2.8					
100% FILAMENT NYLON	112.0	107.4	103.7	100.4	423.5	114.4	108.9	122.0	101.2	446.5
TAFETAS (PLAIN WEAVE)										
75 & 70 DENIER	35.2	34.0	30.0	30.2	135.4	37.0	43.0	38.4	42.2	160.6
ALL OTHER	8.0	24.8	10.0	18.5	61.3	24.0	10.7	10.1	10.0	54.8
TRIGAS & SATINS	0.0	5.2	2.0	2.4	10.0	5.0	2.9	2.2	2.8	13.9
MARQUEE, INTERL. NINGONS & OTHER SHEERS	0.0	0.0	0.0	0.0	0.0					
INDUSTRIAL TYPE	45.5	40.4	40.0	40.3	166.2	45.0	48.7	41.4	40.7	185.8
ALL OTHER	7.2	5.8	3.8	6.2	23.0	3.0	3.4	3.0	6.1	15.5
100% FILAMENT POLYESTER	141.0	138.0	130.0	142.0	551.0	151.8	148.1	136.0	141.3	577.2
TEXTURED YARN										
UP TO 100 SQ IN	47.2	52.0	29.4	28.8	157.4	29.0	29.1	29.7	29.7	117.5
60 & 60 OVER 60 IN	10.5	10.5	10.7	15.5	47.2	75.0	80.2	82.5	78.5	315.2
NONTEXTURED YARN										
INDUSTRIAL TYPE	10.0	10.0	10.0	12.5	42.5	11.5	11.5	8.5	8.7	38.2
MARQUEE, NINGONS & OTHER SHEERS	35.4	30.8	33.0	34.0	133.2	31.5	32.3	32.8	37.0	133.6
TAFETAS										
ALL OTHER	3.2	4.2	2.0	1.8	11.2	8.5	8.2	5.0	6.8	28.5
FILAMENT COMB. CORDILL POLYESTER	15.2	17.1	15.4	11.0	58.7	12.4	11.7	12.4	11.0	47.5
GLASS FIBER	40.3	42.0	79.4	87.6	239.3	101.1	85.3	70.8	87.2	344.4
INDUSTRIAL										
WOVEN REINFORCING & SCREENING	0.5	0.3	0.5	0.7	2.0	0.6	0.2	0.5	0.5	2.0
ALL OTHER	70.8	78.7	72.0	80.9	292.4	98.0	78.1	65.3	82.7	310.7
OTHER 100% FILAMENT YARN ^c	158.0	160.9	152.0	200.0	670.9	175.1	154.2	172.0	255.3	756.6

See footnotes on opposite page.

for selected fabric types during 1980. The factors were derived by dividing the linear yard data from page 7 by the square yard data on page 3 and vice versa.

Using the average for the year 1980, the average width of cotton fabric produced was 44" (multiplying 36" by the square yards/linear yards ratio). This varied from 35" for toweling and 36" for denims to 55" for drapery and 61" for upholstery.

The average width of wool fabrics during 1980 was 61" and varied from 60" for apparel fabrics to 67" for nonapparel fabrics.

For man-made fabrics, the average width of the broad woven fabrics was 57". This varied from 41" for spun cellulosic fabrics to 69" for combination filament yarn fabrics with several fabric classifications around 60" wide.

U.S. COTTON CROP

The Crop Reporting Board of the U.S. Department of Agriculture reported that, as of January first, the 1981

(August 1981-July 1982) cotton crop was expected to total 15,733,200 bales of 480 pounds each, net weight. Thus, the 1981 crop is expected to be 4,611,100 bales, or 41%, more than the 11,122,100 bales produced in the 1980 crop year.

The harvested acreage for the 1981 cotton crop is estimated at 13,820,500 acres by the Board with an estimated yield of 546 pounds per acre.

CCC INVESTMENT & OPERATIONS

The table on page 13 shows the Commodity Credit Corporation's investment in raw cotton for each of eleven fiscal years. The data in the first six columns are for fiscal years ending June 30th, while those in the last six columns are for fiscal years ending September 30th. 1976 (the year the fiscal year was changed) is shown both under the old fiscal year, for comparison with earlier years' data, and the current fiscal year.

(Continued on page 10)

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION (Continued)

MILLION LINEAR YARDS

TYPE OF FABRIC	1979					1980					
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	
100% SPUN YARN FABRICS & BLENDS	962.7	947.5	847.5	843.2	3600.9	942.0	909.6	867.1	1012.1	3730.8	
SPUN RAYON AND ORACETATE BLENDS ^R	0.50	0.10	58.2	61.0	245.0	}	(22.1)	60.4	96.7	153.3	314.0
WITH COTTON	55.4	52.0	49.5	52.1	209.0						
WITH OTHER FIBERS	0.5	8.4	3.7	7.9	96.4						
OVER 50% RAYON AND ORACETATE ^R	25.6	23.4	20.1	20.6	99.8						
POPLIN & SATIN	4.2	4.7	5.8	5.1	14.5						
ALL OTHER	21.4	19.0	16.8	17.7	75.8	19.4	17.0	14.4	15.6	66.4	
SPUN NYLON	1.5	1.0	1.5	1.0	5.0	4.2	3.8	3.4	4.8	15.8	
OVER 50% POLYESTER ^R						32.0	28.8	20.8	40.2	120.8	
PRINT CLOTH YARN						10.2	10.7	11.4	8.8	41.0	
ALL OTHER	1	490.0	44.0	66.7	57.3	198.0	21.8	19.1	18.0	21.4	79.3
SPUN POLYESTER BLENDS WITH COTTON ^R	160.2	160.4	160.0	160.3	640.9	160.7	163.2	160.6	160.8	645.3	
BATISTE	90.0	90.3	90.2	90.4	360.9	90.2	90.7	90.7	90.1	361.7	
BIRD SHEETING	192.2	191.6	176.0	180.5	740.3	189.2	179.0	168.7	181.2	718.1	
BROADEN CLOTH	87.1	80.8	65.7	68.5	292.1	81.2	66.8	60.5	65.1	273.6	
EMBROIDERY	11.9	12.0	12.1	11.2	47.2	}	13.0	17.8	15.7	109.6	67.1
VOILES	22.5	10.8	10.2	5.8	49.3						
OTHERS											
SHIRTING	9.7	8.0	8.0	8.8	36.5	9.3	8.7	8.8	8.8	35.6	
OTHER (SINGLE BROSAKES)	10.2	6.2	6.5	9.0	26.9	9.0	8.0	10.2	11.0	36.8	
POPLINS											
OVER OR MORE SPUN POLYESTER	53.4	42.5	33.2	30.6	159.7	}	37.7	46.3	41.1	40.7	165.8
LESS THAN 50% SPUN POLYESTER	5.1	5.9	4.8	2.2	17.9						
PRINT CLOTH YARN											
PLAIN PRINT CLOTH ^D	84.0	86.0	87.1	81.4	338.5	103.1	107.7	}	104.4	111.7	409.4
ALL OTHER	12.5	12.1	18.2	10.6	46.4	10.0	11.5				
SPUNNS	25.5	29.2	20.0	10.7	85.4	13.5	13.8				
THICKER THAN 2 YD LTH											
2 YD OR GREATER											
YARN DYED ^D	40.5	44.0	40.4	42.5	167.4	41.8	48.0	44.1	43.5	157.1	
PIECE DYE PATTERNS	9.2	7.7	5.3	0.4	22.6						
ALL OTHER ^D	36.4	80.5	28.1	25.1	170.0	}	35.1	40.7	41.3	51.9	168.0
SPUN POLYESTER BLENDS WITH WOOL ^R	11.5	10.2	7.8	7.4	46.9						
SPUN POLYESTER BLENDS WITH RAYON ^R						112.4	106.5	108.9	118.0	445.7	
PLAIN PRINT CLOTH						66.0	66.6	65.3	74.4	272.9	
OTHER PRINT CLOTH						14.0	14.5	}	43.0	43.0	44.5
ALL OTHER						51.1	26.4				
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^R	11.2	11.1	6.0	8.0	36.3	12.6	8.7	11.0	11.8	41.1	
SPUN POLYESTER BLANKETING	7.4	7.7	6.0	6.0	27.1	6.5	6.4	7.5	7.5	27.9	
SPUN ACRYLIC-MOLDACRYLIC BLANKETING	10.0	10.3	9.0	9.4	38.7	9.7	10.7	9.5	8.0	38.4	
OTHER SPUN ACRYLIC-MOLDACRYLIC	4.5	5.0	1.6	2.9	14.0	2.4	2.7	3.1	5.2	13.4	
ALL OTHER 100% SPUN YARN FABRICS & BLENDS	9.2	8.0	8.4	8.8	35.4	8.4	6.8	6.0	8.5	29.6	
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARN FABRICS	82.0	83.6	77.4	100.4	343.4	122.0	98.4	93.8	125.2	439.4	
FILAMENT RAYON OR ACETATE WARP ^K	11.5	12.0	11.0	12.4	46.9	10.0	10.7	12.2	21.2	54.1	
FILAMENT POLYESTER WARP	33.4	35.5	42.5	40.9	142.4	41.8	46.7	49.0	50.5	167.8	
ALL OTHER FILAMENT & WARP ^L	5.5	4.5	5.0	5.2	16.0	4.8	2.7	1.2	1.8	10.5	
SPUN WARP WITH FILAMENT FILLING	21.3	20.3	20.7	31.7	94.0	51.6	35.0	}	41.4	51.9	160.4
COMBINATION FILAMENT & SPUN WARP OR FILLING	10.7	11.3	10.2	12.2	44.4	13.8	15.3				
OTHER SPECIALTY FABRICS	65.7	61.8	55.6	58.4	241.5	69.0	62.1	58.2	55.2	244.5	
DRAPERY & BEDSPREAD ^M	50.6	32.8	31.6	32.2	135.2	59.6	37.9	37.0	31.0	145.5	
JACQUARD WOVEN	1.2	1.6	1.5	1.6	5.9	1.6	1.1	1.1	1.0	4.8	
OTHER WOVEN	33.4	31.2	30.1	30.6	127.5	38.0	36.8	35.9	30.0	140.7	
SLIK	0.2	0.2	0.1	0.2	0.7	1.9	1.1	1.2	1.4	5.6	
UPHOLSTERY & TAPESTRY	22.9	22.7	18.7	20.6	84.9	21.2	16.4	14.0	17.4	69.0	
VELVETS, PILLSIES & OTHER PILE	3.2	5.2	2.8	3.0	12.2	3.7	5.8	3.4	3.4	14.5	
ALL OTHER ^N	2.8	2.9	2.4	2.4	10.5	2.6	2.9	2.6	2.0	10.1	
TOTAL MAN-MADE FIBER FABRICS ABOVE	1701.6	1681.5	1559.6	1642.6	6585.3	1761.6	1681.3	1603.2	1897.2	6943.3	

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*

a. Includes marquisesettes, ninons, sheers, industrials and twills

b. Includes flat, faille and canton crepes

c. Included in All Other 100% Filament Rayon below

d. Includes marquisesettes, ninnons, sheers, industrials and satins. For 3rd and

4th quarters of 1979 only, includes twills

c. Includes household fabrics (marquissettes, drapery, upholstery, etc.)

f. Includes filament combinations, chiefly rayon, and saran & olefin.

g. Except blanketing

h Includes carded broadcloth for 1980

1. Includes overdied fabrics

- Includes seersucker

k. Only acetate for 1979

1. Includes favor for 1979

m. Except glass

n. Includes tie, twisted paper yarn and girdle & swimwear fabrics.

1980 BROAD WOVEN GOODS CONVERSION FACTORS

TYPE OF FABRIC	LINEAR YARDS/SQUARE YARDS					SQUARE YARDS/LINEAR YARDS				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
COTTON FABRICS	0.821	0.822	0.820	0.825	0.822	1.218	1.217	1.219	1.212	1.217
DUCK & ALFED FABRICS	0.751	0.750	0.720	0.707	0.740	1.332	1.333	1.371	1.304	1.336
SHEETING & ALFED FABRICS	0.715	0.714	0.714	0.695	0.710	1.408	1.401	1.401	1.440	1.400
PRINT CLOTH YARN FABRICS	0.770	0.770	0.771	0.792	0.780	1.285	1.284	1.297	1.265	1.282
DENIMS	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000
TWELING, WASH & DRY CLOTHS	1.028	1.025	1.020	1.020	1.025	0.972	0.977	0.972	0.980	0.975
BLANKETING & OTHER NAPPEL FABRICS	0.741	0.725	0.711	0.714	0.725	1.350	1.383	1.407	1.400	1.383
FINE COTTON FABRICS	0.721	0.711	0.711	0.714	0.715	1.388	1.406	1.406	1.400	1.399
CORDUONS	0.690	0.692	0.700	0.682	0.691	1.449	1.446	1.420	1.460	1.447
UPHOLSTERY & TAPESTRY	0.583	0.596	0.571	0.622	0.594	1.714	1.676	1.750	1.609	1.684
VELVETS	0.872	0.853	0.859	0.807	0.858	1.147	1.172	1.192	1.154	1.169
DRAPERY & BEDSPREAD FABRICS	0.660	0.660	0.650	0.667	0.655	1.542	1.515	1.567	1.500	1.542
ALL OTHER FABRICS	0.200	0.000	0.050	1.820	2.010	0.515	0.250	0.004	0.757	0.400
WOOLEN & WORSTED FABRICS^a	0.587	0.587	0.589	0.587	0.587	1.704	1.704	1.698	1.704	1.703
MEN'S & BOYS' CLOTHING	0.580	0.591	0.594	0.595	0.592	1.698	1.694	1.684	1.680	1.680
WOMEN'S & CHILDREN'S CLOTHING	0.590	0.601	0.590	0.598	0.590	1.670	1.664	1.670	1.674	1.669
NONAPPEL FABRICS	0.544	0.528	0.544	0.531	0.530	1.838	1.895	1.840	1.862	1.864
MAN-MADE FABRICS	0.633	0.631	0.637	0.630	0.633	1.579	1.584	1.570	1.587	1.580
100% FILAMENT YARN FABRICS										
100% RAYON	0.857	0.851	0.867	0.887	0.866	1.167	1.178	1.154	1.127	1.155
COMBINATIONS, CHIEFLY ACETATE	0.718	0.720	0.706	0.710	0.716	1.403	1.400	1.417	1.400	1.407
100% NYLON	0.680	0.692	0.695	0.689	0.691	1.451	1.444	1.439	1.452	1.447
100% POLYESTER	0.611	0.604	0.606	0.605	0.606	1.638	1.656	1.649	1.650	1.651
COMBINATIONS, CHIEFLY POLYESTER	0.510	0.522	0.517	0.510	0.510	1.927	1.915	1.935	1.927	1.920
TEXTILE GLASS	0.878	0.871	0.828	0.946	0.879	1.149	1.148	1.208	1.000	1.148
100% ACETATE	0.750	0.751	0.750	0.755	0.754	1.322	1.352	1.344	1.324	1.328
OTHER	0.591	0.582	0.572	0.565	0.564	1.867	1.878	1.748	1.976	1.872
100% SPUN YARN FABRICS & BLENDS										
RAYON & ACETATE	0.840	0.899	0.802	0.920	0.885	1.182	1.151	1.100	1.077	1.150
ACRYLIC/MODACRYLIC	0.615	0.628	0.596	0.681	0.650	1.625	1.618	1.677	1.469	1.588
NYLON	0.615	0.625	0.635	0.608	0.618	1.625	1.605	1.570	1.658	1.617
100% POLYESTER	0.540	0.556	0.550	0.551	0.551	1.822	1.799	1.819	1.815	1.814
POLYESTER WITH COTTON	0.597	0.594	0.590	0.597	0.590	1.670	1.685	1.671	1.675	1.677
POLYESTER WITH WOOL	0.605	0.604	0.597	0.607	0.605	1.652	1.657	1.675	1.648	1.658
POLYESTER WITH RAYON	0.700	0.750	0.771	0.707	0.747	1.415	1.318	1.297	1.415	1.348
POLYESTER WITH OTHER FIBERS	0.750	0.760	0.750	0.760	0.761	1.317	1.310	1.318	1.405	1.318
BLANKETING ^b	0.542	0.543	0.532	0.561	0.544	1.846	1.842	1.881	1.783	1.838
ALL OTHER	0.675	0.675	0.667	0.685	0.676	1.482	1.485	1.500	1.450	1.480
COMBINATIONS & MIXTURES ^c										
FILAMENT RAYON OR ACETATE WARP	0.704	0.713	0.665	0.736	0.708	1.420	1.402	1.508	1.358	1.412
FILAMENT POLYESTER WARP	0.587	0.586	0.605	0.574	0.587	1.703	1.706	1.654	1.744	1.704
OTHER FILAMENT WARP	0.571	0.574	0.545	0.581	0.571	1.750	1.741	1.833	1.722	1.752
OTHER	0.537	0.545	0.550	0.533	0.540	1.862	1.834	1.819	1.875	1.850
SPECIALTY FABRICS										
DRAPERY & BEDSPREAD	0.742	0.743	0.757	0.709	0.744	1.360	1.364	1.322	1.410	1.364
SUE	0.950	0.846	0.924	0.933	0.918	1.053	1.182	1.083	1.071	1.080
VELVETS	0.902	0.884	0.872	0.872	0.883	1.108	1.132	1.147	1.147	1.133
UPHOLSTERY & TAPESTRY	0.709	0.715	0.709	0.669	0.711	1.410	1.402	1.500	1.494	1.407
OTHER ^d	0.963	0.967	0.929	0.909	0.944	1.038	1.054	1.077	1.100	1.059
TOTAL BROAD WOVEN FABRICS ABOVE	0.689	0.688	0.687	0.680	0.686	1.451	1.453	1.455	1.471	1.457

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Felts are not included.

b. Acrylic-modacrylic and polyester.

c. Includes filament & spun yarn fabrics.

d. 100% or chiefly man-made fibers, chief fiber not specified. Also includes small poundages of tie, twisted paper yarn and girdle & swimwear fabrics.

(Continued from page 8)

The tables on page 12 show the relevant costs to the U.S. Government of programs in support of price and/or consumption of American cotton and wool since the programs began in 1933. These programs are discussed in the October and December *Organon* issues each year.

The CCC has had no investment in wool since 1957,

i.e., the wool price support monies shown in the upper page 12 table are paid directly to growers.

ANNUAL BOUND *Organon* ISSUE

A limited number of bound copies of the 1981 *Textile Organon*, Volume LII, will be available at \$50.00 each (postpaid). Remittance with the order please.



**COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+)
ON TEXTILE FIBER & PRODUCT PROGRAMS OCTOBER 1933 TO DATE**

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								48 YEARS	22 YEARS	5 YEARS	5 YEARS	16 YEARS
	1975 ^a	1976 ^a	1976 ^b	1977 ^b	1978 ^b	1979 ^b	1980 ^b	1981 ^b	1933-1981 ^b	1934-1955	1956-1960	1961-1965	1966-1981 ^b
COTTON - UPLAND & LONG STAPLE													
INVENTORY & LOAN OPERATIONS ^c	+2	+91	+91	+50	947	470	229	5,899	2,340,859	+232,175	1,079,751	549,967	945,314
SET-ASIDE PAYMENTS													
DIRECT PAYMENTS ^d	180,996	119,945	126,219	95,702	85,487	216,607	103,069	300,886	6,959,864	0	0	51,215	6,908,649
ACREAGE DIVERSION ^e	0	0	0	0	0	0	0	0	805,634	0	0	0	805,634
SMALL FARMS PROGRAM	0	0	0	0	0	0	0	0	850,111	0	0	0	850,111
EQUALIZATION PROGRAM ^f	0	0	0	0	0	0	0	0	850,111	0	0	497,575	352,536
EXPORT PAYMENTS													
COTTON	0	0	0	0	0	0	0	0	846,593	102	245,226	464,982	7
COTTON PRODUCTS	0	0	0	0	0	0	0	0	0	0	61,514	66,776	0
COTTON RESEARCH & PROMOTION	2,903	1,016	2,946	0	+15	0	0	0	28,846	0	0	0	28,846
TOTAL COTTON ABOVE	133,897	120,870	129,074	95,652	86,421	217,077	103,298	304,785	11,819,897	+232,071	1,384,491	1,630,515	9,036,962
COTTONSEED & PRODUCTS ^g	0	0	0	0	0	0	0	0	198,023	81,100	53,747	27,040	46,140
TOTAL COTTON PROGRAMS	133,897	120,870	129,074	95,652	86,421	217,077	103,298	304,785	12,017,920	+150,971	1,438,238	1,657,545	9,073,108
Wool PRICE SUPPORT^h	14,647	41,577	41,826	6,823	28,829	36,085	30,989	37,570	1,289,783	93,428	288,314	202,682	705,359
GRAND TOTAL ABOVE	148,544	162,447	170,900	102,475	115,250	253,162	134,287	342,355	13,307,703	+57,543	1,726,552	1,860,227	9,778,467

SOURCE: CCC Report of Financial Condition and Operations, U.S. Department of Agriculture

- a. Old fiscal year ending June 30th (12 calendar months in 1976).
b. New fiscal year ending September 30th (15 calendar months in 1976).
c. Inventory Operations means sales less the cost of sales and less storage, handling & transportation expense.
d. Direct Payments means cash or in kind price support payments to farmers.

e. Diversion Payments means payments to farmers for acreage diversions under the 1960-1968 Upland programs.

f. The Equalization Program, which began April 11, 1964, was mainly replaced by other programs as of August 1, 1966.

g. Data for 1953-1955 include cottonseed meal under the Emergency Feed Program.

h. Data through 1956 include price support programs only. For 1957 forward, incentive payments are also included in the year in which they became payable.

**COMMODITY CREDIT CORPORATION'S REALIZED LOSSES OR GAINS (+)
AMOUNTS TO BE REIMBURSED TO THE CCC UNDER P.L. 480 & EXPORT CREDIT SALES**

THOUSAND DOLLARS

CCC FISCAL YEARS ENDING SEPT 30TH	SINGLE YEARS								48 YEARS	22 YEARS	5 YEARS	5 YEARS	16 YEARS
	1975 ^a	1976 ^a	1976 ^b	1977 ^b	1978 ^b	1979 ^b	1980 ^b	1981 ^b	1933-1981 ^b	1934-1955	1956-1960	1961-1965	1966-1981 ^b
COTTON PROGRAMS^c - BEGAN 1933	133,897	120,870	129,074	95,652	86,421	217,077	103,298	304,785	11,819,897	+232,071	1,384,491	1,630,515	9,036,962
PUBLIC LAW 480													
FOREIGN CURRENCY ^d	0	0	0	0	0	0	0	0	2,289,665	73,193	848,900	902,853	477,719
DOLLAR CREDIT ^e	14,769	28,894	54,533	17,726	9,891	14,260	11,503	12,657	720,808	0	0	67,987	652,821
DISASTER OR OTHER RELIEF ^d	+1	0	0	0	0	0	0	0	19,389	989	14,361	3,540	489
TOTAL P.L. 480	14,768	28,894	54,533	17,726	9,891	14,260	11,503	12,657	2,979,862	11,192	863,261	974,380	1,131,029
EXPORT CREDIT SALES	97,435	244,879	324,863	98,546	229,823	248,765	52,027	210	1,634,772	0	0	68,000^f	1,566,772
TOTAL COTTON PROGRAM, P.L. 480 & EXPORT CREDIT SALES COST	246,100	394,643	508,470	211,924	326,135	480,102	166,828	317,652	16,434,531	+220,879	2,247,752	2,672,895	11,734,763

SOURCE: CCC Report, same as above.

- a. Old fiscal year ending June 30th (12 calendar months in 1976).

b. New fiscal year ending September 30th (15 calendar months in 1976).

c. The Cotton Programs' data are from the table above.

d. Program began in 1954.

e. Program began in 1961.

f. Partially estimated.

COMMODITY CREDIT CORPORATION INVESTMENT IN RAW COTTON^a AS OF SEPTEMBER 30TH

COMMODITY	1970 ^b	1971 ^b	1972 ^b	1973 ^b	1974 ^b	1975 ^b	1976 ^b	1976	1977	1978	1979	1980	1981
THOUSAND BALES													
LONG-LEAF	740	30	44	10	7	50	6	6	6	10	12	2	21
UPLAND	3,426	640	276	310	502	1,151	170	50	68	720	355	154	505
TOTAL	3,507	688	322	329	569	1,161	176	50	68	736	365	156	524
THOUSAND DOLLARS ^c													
LONG-LEAF	18,904	857	9,210	1,044	1,250	7,200	57	6	50	6,000	4,780	850	9,750
UPLAND	870,269	700,688	10,070	24,521	82,780	155,554	24,854	5,051	15,008	147,411	75,405	35,412	100,385
TOTAL	895,193	799,629	28,895	26,465	84,039	142,830	24,411	5,955	15,118	153,417	80,254	36,242	76,133

SOURCE: CCC Report of Financial Condition and Operations, U.S. Department of Agriculture, Agricultural Stabilization & Conservation Service.

^b For earlier years, data see October 1975, 1965, 1965 and 1958 *Organon* issues.

^a Includes the quantity and value of each commodity as pledged for outstanding loans plus that held in price support inventory.

^b As of June 30th, end of old fiscal year. See text below.

^c Book value before the deduction of reserve for losses.

PER CAPITA AVAILABILITY

The table to the right shows the per capita availability of man-made fibers, cotton and wool for the most recent periods. It is similar to the table published on page 43 of the March 1981 *Organon* issue.

The population figures for 1970-1979 have been revised, based on the 1980 Census, to smooth out the series. The upward revision in population for these years has resulted in a lower per capita availability of fiber. Thus for 1979, the per capita availability is now 57.5 pounds per person as opposed to 58.7 pounds per person as originally published in the March 1981 issue.

"MAN-MADE FIBER REVIEW"

A new publication of the Textile Economics Bureau, Inc., debuted last September.

Designed to provide up-to-the minute coverage of the U.S. man-made fiber industry, the new monthly is published on or about the 17th of each month and features the monthly data familiar to subscribers of the "Man-Made Fiber Producers' Handbook."

The four page publication presents more detailed information than generally found in the *Organon's* familiar "back page." This includes monthly data on production, exports, domestic shipments by denier, etc.

The annual subscription rate is \$250.

Organon readers are invited to request a copy of the *Review* at no charge.

AVERAGE ANNUAL FIBER AVAILABLE FOR CONSUMPTION - POUNDS

PERIOD ^a	POPULATION	PER CAPITA			
		MAN-MADE FIBER	COTTON	WOOL	TOTAL
	(41)	(42)	(43)	(44)	(45)
1920-1924	110.2	0.2	23.8	4.0	28.0
1925-1929	118.9	0.7	26.0	5.0	30.5
1930-1934	124.9	1.4	20.5	2.6	24.5
1935-1939	129.1	2.7	24.9	5.4	31.0
1940-1944	135.1	4.7	35.1	4.5	44.5
1945-1949	144.2	6.6	28.0	4.8	39.4
1950-1954	157.6	9.0	26.9	5.8	39.7
1955-1959	171.9	10.5	25.7	5.0	37.0
1960-1964	180.4	12.0	22.0	5.0	38.5
1965-1969	198.0	22.9	23.0	2.5	48.4
1970-1974	209.1	35.5	18.9	1.2	55.4
1975-1979	219.2	39.5	15.7	0.9	56.1
1965	194.2	18.5	24.9	2.9	45.1
1966	196.5	20.2	25.1	2.7	48.0
1967	198.7	21.4	25.5	2.2	47.1
1968	200.7	26.7	21.9	2.4	51.0
1969	202.7	27.9	20.9	2.2	51.0
1970	204.9	27.8	19.7	1.7	49.2
1971	206.8	33.0	20.5	1.5	54.8
1972	209.5	37.6	19.9	1.4	58.9
1973	211.4	41.8	18.4	1.0	61.2
1974	215.5	36.0	16.0	0.7	52.7
1975	215.5	34.8	14.9	0.8	50.5
1976	217.6	37.6	16.9	0.9	55.4
1977	219.8	41.2	15.8	0.9	57.9
1978	222.1	42.4	15.9	1.0	59.3
1979	224.6	41.7	14.9	0.9	57.5
1980	227.6	37.6	14.7	0.9	53.2

a. Five-year averages for 1920-1979 and annual data for 1965-1980.

Column 41: U.S. population as of July first. 1950 forward data include Alaska and Hawaii. Puerto Rico is excluded.

Columns 42 to 45: Columns 51, 54, 57 and 40 respectively on page 56 of the March *Organon* issue divided by column 41.

**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN**
THOUSAND POUNDS

ITEM	1981												11 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
RAYON+ACETATE YARN, MONOFIL & STRIPS														
CANADA	518	125	8	1	12	5	0	15	4	14	35		537	706
MEXICO	161	70	165	41	191	166	81	246	121	78	68		1395	1349
BELGIUM	0	50	25	0	76	0	23	0	0	0	16		196	0
WEST GERMANY	242	290	555	200	659	179	115	357	500	435	205		3523	1002
GREECE	0	0	0	0	39	0	0	0	0	82	40		101	0
NETHERLANDS	256	593	333	295	262	194	372	330	284	197	198		3292	1965
SPAIN	142	0	0	0	41	0	40	0	0	0	0		223	79
UNITED KINGDOM	1	10	0	67	41	0	90	73	14	0	0		285	1600
JAPAN	64	0	0	0	35	56	0	28	14	51	25		251	638
SOUTH KOREA	1	0	0	40	40	0	0	0	60	34	0		175	120
ALL OTHER COUNTRIES ^a	79	4	0	0	0	20	5	38	0	24	9		110	253
TOTAL R+A YARN	1184	1151	1084	581	1374	600	726	1087	803	921	596		10107	7778
RAYON+ACETATE STAPLE+TOW														
CANADA	409	474	456	451	421	392	411	463	407	401	295		4620	2053
AUSTRIA	751	115	106	503	708	250	403	308	526	300	651		4639	1223
FRANCE	18	85	59	43	0	45	0	0	0	194	0		422	100
WEST GERMANY	0	0	85	0	0	0	0	45	2	43	0		173	215
ITALY	0	12	0	0	50	16	105	135	0	202	0		576	0
SWEDEN	332	254	184	0	187	227	227	224	184	331			2428	2047
UNITED KINGDOM	226	76	7	157	203	235	349	75	122	249	148		1647	1498
JAPAN	60	147	74	118	50	86	105	87	62	220	59		1147	907
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0	96	37	0		135	52
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449	1437	1920	1524		15987	8701
NON-CELLULOSIC YARN, MONOFIL & STRIPS														
CANADA	50	98	4	579	415	280	389	263	55	45	207		2385	2873
MEXICO	14	20	12	15	44	9	3	99	2	8			226	54
AUSTRIA	0	0	0	0	64	0	41	10	0	11	0		126	1
BELGIUM	0	0	0	0	1	0	5	37	68				131	34
FRANCE	94	140	207	210	166	109	235	125	101	214	137		1724	730
WEST GERMANY	256	582	275	501	426	353	320	308	352	470	557		4400	2846
ITALY	52	152	35	0	108	79	0	333	227	155	47		1188	217
NETHERLANDS	0	3	9	0	49	28	42	0	5	38			170	158
SPAIN	61	0	0	0	0	0	0	179	0	99	0		339	62
SWITZERLAND	1	3	8	0	3	3	50	3	50	1			122	21
UNITED KINGDOM	57	114	37	8	5	1	4	13	14	48	27		325	610
JAPAN	300	671	357	776	662	743	773	601	360	670	691		6694	10384
SOUTH KOREA	5	36	5	3	43	2	1	4	3	2	1		102	10
ALL OTHER COUNTRIES ^c	2	3	0	0	50	0	2	0	31	11	42		153	628
TOTAL N.C. YARN	892	1610	949	2087	2035	1614	1818	2183	1205	1854	1748		17995	18608
NON-CELLULOSIC STAPLE+TOW														
CANADA	328	350	449	531	714	425	1250	649	696	617	353		6362	2192
MEXICO	190	28	97	510	693	217	141	384	264	483	781		3788	31
BELGIUM	0	130	0	152	70	2	5	36	31	115	203		744	4
FRANCE	44	797	198	508	533	254	528	108	472	406	379		4287	47
WEST GERMANY	541	1965	1025	2243	1644	1345	2386	2353	732	1601	846		17369	9708
IRELAND	0	56	0	0	0	0	39	0	29	87	0		221	1
ITALY	7	813	616	423	717	164	1426	649	1202	72	1193		7282	1132
NETHERLANDS	0	39	44	80	35	15	13	98	37	24	15		402	20
POLAND	44	38	0	0	89	0	0	3	0	0	26		200	60
ROMANIA	0	0	132	84	28	0	24	0	71	287	0		625	559
UNITED KINGDOM	208	508	420	173	264	818	715	607	306	411	465		4793	2206
EGYPT	0	0	0	0	0	0	0	0	333	0	0		333	0
JAPAN	828	335	367	493	343	478	434	288	202	356	264		4388	5687
TAIWAN	324	745	588	875	583	866	198	852	1291	653	258		7233	11500
ALL OTHER COUNTRIES ^d	0	13	0	16	1	54	23	72	26	11	79		295	118
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862		58322	33265

Other countries supplying 1981 poundages are:

a. Austria 63, France 1, Italy 4, Sweden 2, Taiwan 28 & Yugoslavia 21.

b. Belgium 96, Mexico 1, Netherlands 37 & Venezuela 1.

c. Australia 1, Costa Rica 11, Denmark 81, Hong Kong 2, Iceland 1, Ireland 35,

Portugal 9, Sweden 10, & Taiwan 3.

d. Austria 44, Brazil 20, Costa Rica 40, Denmark 3, Hong Kong 15, Israel 31,

South Korea 30, Portugal 16, South Africa 23, Spain 3 & Switzerland 70.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1 - 1 - 78	1981												11 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
RAYON+ACETATE															
YARN, SINGLES															
TEXTURED	510.0100 & 0200	1	10	0	242	4	0	3		0	0	0		266	863
OTHER	510.0130 & 0230 ^a	1182	1149	1084	559	1370	600	712	1072	803	920	587		9808	6905
MONOFILAMENTS	800.0510 & 0610	1	2	0	0	0	0	0	0	0	1	0		4	0
STRIPS, 1 LB & UNDER	800.2000 ^a	0	0	0	0		0	5	15	0	0	9		29	10
SUBTOTAL ABOVE		1184	1151	1084	561	1374	600	726	1087	803	921	596		10107	7778
STAPLE	800.4520 & 4525	1027	1006	927	887	1442	990	1511	1517	1558	1686	1538		15889	6534
GROULED FILAMENTS	800.8010 & 8110	249	153	64	185	232	263	351	352	79	254	186		2098	2167
SUBTOTAL ABOVE		1866	1159	991	1072	1674	1253	1662	1449	1437	1920	1524		15987	8701
WASTE, ADVANCED & NOT ADVANCED	800.6015 & 7510	57	7	57	0	35	40	95	46	40	58	116		481	339
NON-CELLULOSIC FIBERS															
YARN, SINGLES															
TEXTURED: NYLON	510.0100 & 0200	197	217	215	580	507	575	471	159	176	443	195		3541	5044
POYESTER	510.0110 & 0210	27	7	22	13	79	80	1	294	98	16	65		702	329
OTHER	510.0114 & 0214	17	50	8	17	49	23	85	21	4	149	35		463	189
OTHER: NYLON	510.0140 & 0240	204	525	127	542	487	354	517	416	438	284	208		3902	5383
POYESTER	510.0150 & 0250	111	411	290	499	482	491	293	935	190	618	941		5170	6293
OTHER	510.0170 & 0270 ^b	170	183	115	189	164	56	182	81	108	111	89		1445	1318
MONOFILAMENTS	800.0200 & 0300 ^c	145	200	149	821	258	220	458	263	161	220	191		2586	3831
STRIPS, OVER 1 LB	800.2100 & 2500 ^a	21	11	16	21	9	15	11	14	31	13	24		186	221
SUBTOTAL ABOVE		892	1610	949	2087	2035	1614	1818	2185	1205	1854	1748		17995	18608
STAPLE: NYLON	800.4538	525	2686	1698	2533	2455	1574	4055	3238	2062	504	1729		23059	1442
POYESTER	800.4542	132	111	300	661	847	363	328	576	840	1187	1060		6417	1255
ACRYLIC	800.4545	1069	1594	907	1201	1005	565	736	695	480	1259	569		10080	12726
CELESTIS	800.4546	5	0	304	1	5	71	474	79	125	60	10		1134	144
OTHER	800.4555	409	961	673	1088	852	1281	356	1285	1666	1069	616		10316	13423
GROULED FILAMENTS															
NYLON	800.8030 & 8130	68	50	68	137	155	196	500	23	18	473	300		1988	929
POYESTER	800.8040 & 8140	0	42	0	0	44	90	18	30		33	22		289	128
ACRYLIC	800.8050 & 8150	181	255	178	291	195	312	372	256	175	375	477		3067	2486
OTHER	800.8065 & 8165	65	116	302	166	156	186	342	77	336	153	73		1972	732
SUBTOTAL ABOVE		2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862		58322	33265
WASTE, NOT ADVANCED: NYLON	800.6025	1598	1587	2822	1713	2134	1607	2249	2344	2417	2114	2458		23033	10907
POYESTER	800.6030	1071	1810	1547	1005	1473	1321	1438	1409	1282	2508	1491		16355	4980
ACRYLIC	800.6045	289	258	200	236	379	269	87	514	3	30	424		2689	2121
OTHER	800.6060	32	203	263	328	127	331	196	340	15	368	546		2549	850
NOIS & GARNETTED FIBERS	800.6080 & 7000 ^a	0	0	0	0	0	0	29	28	0	28	0		85	4
OTHER WASTE, ADVANCED	800.7525 & 7555	119	63	3	35	2	6	25	58	31	117	74		531	562
TOTAL MAN-MADE ABOVE		9602	13643	12332	13135	14947	11679	15464	15717	12935	15041	13639		148134	88143
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN, PLIED															
TEXTURED: CELLULOSIC	510.1106	0		24	0	0	0	0	0	0	1	0		25	0
NON-CELLULOSIC	510.1015 ^d & 1109 ^e	298	124	215	313	364	265	342	335	143	459	299		3125	1154
OTHER: CELLULOSIC	510.1030 & 1135 ^f	16		0	0	0	0	1	0	1	0	3		21	97
NON-CELLULOSIC	510.1050 & 1070 ^g	20	27	26	44	20	4	125	14	13	16	45		354	381
SPUN YARN: CELLULOSIC	510.4005 & 4030 ^h	10	25	24	52	37	24	93	130	58	75	67		595	508
OTHER	510.4015 & 4021 ⁱ	1762	1454	1794	1740	2164	1312	1542	1314	1258	1982	1315		17637	17926
OTHER YARNS, NES INCL CHENILLE	510.6029 & 8000	352	109	261	415	609	433	361	356	374	345	324		3939	2131
HAND/WORK YARNS & SEWING THREAD	510.9000 & 9140	247	230	188	190	262	292	226	208	195	316	272		2626	2072
SILVER, TOPS & ROVING	800.9000	388	473	322	262	173	245	370	595	115	366	127		3436	2560
TEXTILE GLASS FIBER	800.2800 & 2900 ^j	1156	441	1047	551	643	1485	1575	3434	2410	2127	2201		17070	6748
GRAND TOTAL ABOVE		13821	16526	16231	16702	19219	15739	20098	22104	17501	20729	18292		196962	121720

SOURCE: U.S. Census Bureau

NES: Not elsewhere specified

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & 0610.

b. Also includes 310.0530, 0550, 0630 & 0650.

c. Also includes 309.0340, 0365, 0500, 0630, 0640 & 0665.

d. There may be some acetate yarn in these data, but the Census

figures do not permit a segregation.

e. Also includes 310.1110 & 1114.

f. Also includes 310.2010 & 2110.

g. Also includes 310.1150, 1155, 1170, 2030, 2050, 2130 & 2150.

h. Also includes 310.5005 & 5030.

i. Also includes 310.4046, 4047, 4050, 5015, 5046, 5047, 5049 & 5051.

j. Chiefly roving. Also includes 309.9800 & 9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
MAN-MADE FIBER DATA^c														
YARN*MONOFILAMENTS^d														
TOTAL SHIPMENTS^b														
ACETATE	20.9	21.6	21.5	27.1	26.4	25.2	24.6	19.9	20.8	19.5	17.6	16.0	261.1	301.9
NYLON ^e INDUSTRIAL ^f	54.5	54.4	47.2	35.9	32.3	34.3	30.0	35.7	35.0	31.8	33.4	27.8	402.9	446.6
LOW-DENIER INDUSTRIAL ^g	3.0	3.0	3.8	2.8	2.3	3.3	2.5	2.9	3.5	2.7	2.7	2.6	35.1	35.8
CARPET	67.1	63.8	65.5	73.4	65.3	61.3	56.8	52.9	48.1	40.7	39.4	42.9	677.0	756.9
TEXTILE	35.7	36.0	38.4	37.3	30.1	37.3	31.7	34.8	35.8	33.0	32.5	31.1	418.3	447.6
POLYESTER INDUSTRIAL ^f	28.5	24.5	27.3	20.0	24.7	25.5	20.9	27.5	26.2	27.3	26.2	23.1	315.1	294.3
LOW-DENIER INDUSTRIAL ^g	2.1	2.1	2.5	2.9	2.7	2.5	2.8	1.9	2.3	2.4	2.2	1.5	27.6	29.4
TEXTILE	93.8	90.0	111.5	124.0	100.4	108.6	102.1	107.5	105.9	98.4	91.6	85.3	1229.3	1172.8
OLEFIN ^h	30.0	35.8	37.4	35.3	36.8	32.0	34.5	34.2	31.0	30.1	31.0	32.4	646.6	632.4
TOTAL NON-CELLULOSIC ABOVE ⁱ	316.7	316.0	343.2	360.4	326.6	324.8	306.6	317.0	306.7	286.2	279.0	266.7	3749.9	3815.8
STAPLE*LOW-DENIER FIBER^j														
RAYON	40.9	35.4	37.9	41.4	40.8	37.5	39.4	36.8	38.7	38.7	36.6	32.6	456.7	451.7
NYLON ^e	70.7	67.5	73.0	80.0	74.8	69.2	62.2	52.8	44.9	41.8	40.0	42.8	721.5	743.1
ACRYLIC-MODAL-ACRYLIC	50.3	62.2	63.8	65.3	61.0	60.1	51.0	49.8	54.3	53.3	49.8	52.8	694.5	771.1
POLYESTER	308.6	211.1	202.5	243.6	218.6	211.9	212.8	232.9	223.4	214.4	206.2	212.8	2598.8	2599.4
OLEFIN-VINYLON	10.8	10.3	11.2	11.7	12.4	11.7	10.7	13.3	10.6	12.9	10.0	9.9	133.5	118.7
TOTAL NON-CELLULOSIC ABOVE	349.4	351.1	351.4	400.6	367.7	352.9	337.6	356.8	333.2	322.4	306.9	318.3	4148.3	4172.3
END-OF-MONTH STOCK														
ACETATE	17.0	15.4	15.8	13.5	11.6	12.1	11.4	13.7	12.6	12.4	12.4	14.3	14.3	18.4
NYLON ^e INDUSTRIAL ^f	37.5	37.0	35.7	30.7	32.5	33.2	33.8	38.3	37.2	38.7	35.4	30.4	36.4	29.4
LOW-DENIER INDUSTRIAL ^g	3.0	3.2	3.1	3.5	3.4	3.2	3.0	3.8	3.0	3.9	4.4	4.3	4.3	3.5
CARPET	37.7	48.2	50.3	33.4	30.4	39.5	47.0	64.0	72.4	80.4	74.9	64.1	64.1	31.0
TEXTILE	42.8	43.1	41.8	41.7	35.0	41.4	45.1	44.5	45.7	47.6	47.5	47.3	47.3	40.1
POLYESTER INDUSTRIAL ^f	23.7	24.1	21.3	20.9	23.7	24.7	24.1	22.7	22.0	20.2	22.8	23.5	23.5	21.3
LOW-DENIER INDUSTRIAL ^g	3.0	3.4	3.5	3.6	3.3	3.6	3.0	3.3	2.7	3.1	2.8	3.0	3.6	4.2
TEXTILE	100.2	104.1	87.3	67.5	72.5	70.0	89.4	84.1	84.6	95.4	99.6	95.9	95.9	92.3
OLEFIN ^h	63.9	62.3	61.6	60.4	58.5	62.3	61.8	62.2	66.2	64.8	65.4	62.6	62.6	66.9
TOTAL NON-CELLULOSIC ABOVE ⁱ	315.3	315.3	292.6	267.7	283.7	291.9	319.3	323.8	334.4	334.1	332.8	337.7	337.7	289.3
STAPLE*LOW-DENIER FIBER^j														
RAYON	24.2	25.1	29.3	28.1	25.4	23.7	23.2	25.7	27.3	25.9	29.2	31.1	31.1	27.2
NYLON ^e	33.3	37.4	37.3	33.3	30.1	38.5	61.0	71.8	72.4	73.4	70.7	64.8	64.8	34.5
ACRYLIC-MODAL-ACRYLIC	70.5	70.3	74.3	68.5	67.1	64.8	67.8	64.2	64.6	66.7	70.4	65.0	65.0	68.8
POLYESTER	174.2	182.3	190.3	178.5	181.7	185.1	195.4	177.4	179.0	180.1	183.9	174.2	174.2	166.5
OLEFIN-VINYLON	16.0	16.9	16.2	15.3	15.2	15.3	16.7	17.9	20.0	21.0	24.8	25.7	25.7	17.2
TOTAL NON-CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.9	340.9	331.3	336.6	341.2	348.8	329.7	329.7	287.0
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.0	12.1	14.6	13.2	11.5	13.0	9.3	12.3	11.7	11.4	10.4		130.5	116.7
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.8	0.7	1.1	1.1	1.2	0.7		9.7	9.4
TOTAL RAW WOOL	11.8	12.9	15.5	14.0	12.3	13.8	10.0	13.4	12.8	12.6	11.1		140.2	126.1
RAW COTTON	217.4	243.4	247.1	238.1	230.3	244.4	193.1	235.7	237.7	246.7	201.3	175.3	2703.0	3064.4

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include ramid.

f. Industrial is defined as 5-70 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*low data are available annually only; see page 21 of the February issue.

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MONTHLY REVIEW

Highlights

Production of man-made fibers increased 2½% in 1981, reaching 9,817.1 million pounds. However, 1981 production was still 5½% below the peak of 10,380.8 million pounds set in 1979. Cellulosic fiber production declined 4½% to 770.1 million pounds, non-cellulosic fiber output increased 1½% to 8,005.9 million pounds and textile glass fiber production rose 20% to a record 1,041.1 million pounds during 1981.

Domestic consumption of man-made fibers declined 1% in 1981, to 8,573.7 million pounds.

1981 WORLD MAN-MADE FIBER OUTPUT ESTIMATED AT 30,020 MILLION POUNDS

The Textile Economics Bureau's preliminary estimate of world man-made fiber production (except acetate cigarette tow, olefin and textile glass fiber) put the 1981 total at 30,020 million pounds, 1% below the 30,269 produced in 1980 and 2½% below the record 1979 output of 30,817 million pounds.

Non-cellulosic fibers recorded a ½% increase in output (to 23,220 million pounds) while rayon+acetate production fell 5% (to 6,800 million pounds). Production of non-cellulosic yarn+monofilaments was marginally ahead of 1980 (at 10,450 million pounds) while output of non-cellulosic staple+tow increased ½% (to 12,770 million pounds). For the cellulosic fibers, yarn+monofilaments declined 6½% (to 2,390 million pounds) and staple+tow declined 4% (to 4,410 million pounds).

The center table opposite shows the variations in the 1980-1981 growth rates of the various fibers in the United States as compared with the rest of the world.

WORLD PRODUCTION BY REGION

The bottom of the three tables on the front page of this issue shows world production of man-made fibers for 1978-1981 as divided by producing region and pro-

WORLD MAN-MADE FIBER PRODUCTION^a
MILLION POUNDS

YEAR	RAYON+ACETATE			NON CELLULOSIC			TOTAL FIBERS		
	YARN	STAPLE	TOTAL	YARN	STAPLE	TOTAL	YARN	STAPLE	TOTAL
1975	5,005	5,186	10,191	8,450	8,592	17,042	13,455	13,438	26,893
1976	4,871	4,919	9,790	8,544	8,101	16,645	13,415	13,077	26,492
1977	4,508	4,020	8,528	8,296	7,914	16,210	10,786	11,954	22,740
1978	4,109	4,457	8,566	9,101	9,862	18,963	11,720	14,510	26,230
1979	4,584	4,940	9,524	9,508	10,465	19,973	12,942	15,412	27,454
1978	4,572	4,742	9,314	10,148	11,074	21,222	12,720	16,719	29,439
1979	4,508	4,887	9,395	10,790	12,588	23,378	15,842	17,425	33,267
1980	4,555	4,566	9,121	10,450	12,688	23,138	12,985	17,284	30,269
1981	4,581	4,410	8,991	10,450	12,770	23,220	12,840	17,180	29,020

USA VS. OTHER COUNTRIES MAN-MADE FIBER PRODUCTION^a
MILLION POUNDS ■ % CHG

	1980			1981			% CHANGE		
	USA	OTHER	TOTAL	USA	OTHER	TOTAL	USA	OTHER	TOTAL
RAYON+ACETATE^a									
YARN	550	2,109	2,555	605	2,188	2,593	14	5	6½
STAPLE	450	4,140	4,590	465	5,045	5,410	+3	5	8
TOTAL	806	6,545	7,151	770	6,030	6,800	-4	5	5
NON CELLULOSIC^a									
YARN	1,112	7,418	10,450	1,172	7,278	10,450	5	-2	0
STAPLE	4,050	8,052	12,088	4,052	8,718	12,770	+2	+1	+2
TOTAL	7,148	15,970	23,118	7,224	15,996	23,220	+1	+2	+2
TOTAL MAN-MADE ABOVE^a									
YARN	5,668	10,517	12,085	5,677	9,565	12,840	+2	-1	1
STAPLE	4,480	12,708	17,284	4,517	12,685	17,180	+1	-1	-2
TOTAL	7,954	22,515	30,269	7,994	22,026	30,020	+1	-2	-1

WORLD PRODUCTION^a BY REGION
MILLION POUNDS

REGION	1978		1979		1980		1981	
	CELL	NON-CELL	CELL	NON-CELL	CELL	NON-CELL	CELL	NON-CELL
WEST EUROPE	1,785	5,168	1,827	5,251	1,687	4,787	1,275	4,600
EAST EUROPE	2,507	2,455	2,475	2,410	2,515	2,622	2,580	2,700
USA	804	7,094	1,080	7,080	800	7,148	770	7,224
OTHER AMER	800	1,105	845	1,577	527	1,085	520	1,580
JAPAN	658	5,054	642	5,005	670	2,791	665	2,910
OTHER ASIA & AF	154	3,005	174	3,458	180	3,005	1,052	3,200
TOTAL	7,514	22,121	7,450	23,387	7,151	23,118	6,800	23,220

a. Except acetate cigarette tow, olefin and textile glass fiber.

duct. It is of interest that only Japan and Other Africa, Asia and Oceania increased production of cellulosic fibers and East Europe, the U.S.A. and Other Africa, Asia and Oceania increased output of non cellulosic fibers.

The following table shows the annual growth rates for the periods 1960-1973 and 1973-1981 by fiber group and area.

	ANNUAL GROWTH RATES					
	1960-1973			1973-1981		
	CELL	NON-CELL	TOTAL	CELL	NON-CELL	TOTAL
WEST EUROPE	0.6	20.2	8.2	-7.5	1.3	3.0
EAST EUROPE	5.6	24.0	8.9	1.4	5.0	4.8
U.S.A.	2.2	18.2	11.8	0.8	2.7	1.4
OTHER AMERICAS	2.9	24.7	10.6	2.2	7.4	5.0
JAPAN	1.3	20.8	9.4	3.1	0.7	0.4
OTHER A.A. & O.	10.4	40.9	18.3	-7.8	21.4	17.5
WORLD	2.6	20.4	9.9	-2.1	4.1	2.4

This table emphasizes the shock caused by the Arab oil embargo of 1973, particularly to the developed countries. Production in Western Europe has declined at an annual rate of 3.0% and in Japan at an annual rate of 0.3%, while production in the United States has grown at an annual rate of only 1.4%, well below the world average of 2.4% per year. Prior to 1973 these areas grew at around the world rate. On the other hand, East Europe, Other Americas and in particular Other Africa, Asia and Oceania have grown at rates well above the world rate. The shift in production away from the industrialized areas has been most prominent in the case of Other Africa, Asia and Oceania, growing from only 2% of world production in 1960, to 6% of world production in 1973, to 18% of the world production in 1981. This makes Other Africa, Asia & Oceania the world's third largest producing area of man-made fibers behind the U.S.A. (with 27% of the world total) and West Europe (with 20% of the world total).

CORRECTION

In the page 3 article of the January 1982 *Organon* issue, Tolaram Fibers, Inc., purchaser of Meyer's polyester plant, was incorrectly identified as Tolaran Fibers, Inc.

CHEVRON TO PHASE OUT MAN-MADE FIBERS

Chevron Chemical Co., subsidiary of Standard Oil of California, has decided to get out of the man-made fiber business. The company will close its Vectra Products plant in Odenton, MD, early in March and is seeking a purchaser for its Polyloom Products plant in Dayton, TN.

The Dayton plant, which produces fibrillated yarn for artificial grass, will continue to operate while a buyer is being sought. The Odenton plant, which was purchased from Exxon in 1971, produced olefin filament yarn and staple.

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Textile Organon

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An arrangement of authentic market data, especially important to the United States Man Made Fiber industry, published monthly in the interest of good business.

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MULTIFIBRE ARRANGEMENT EXTENDED

The Arrangement Regarding International Trade in Textiles, generally known as the Multifibre Arrangement (MFA), has been extended for a further period of four years and seven months, from January first, 1982 to July 31st, 1986.

This decision and the extension arrangements were the outcome of negotiations between signatory governments of the MFA. The decision was taken on December 22nd, 1981, by the Textiles Committee, a body made up of representatives of the 51 participating countries and which is responsible for administering the Arrangement.

No changes have been made in the Arrangement's text, but the Protocol of Extension mentions certain understandings recorded in conclusions that the Committee adopted on December 22nd, 1981. The Protocol also reaffirms the provisions of the MFA regarding the competence of the Textiles Committee and the Textiles Surveillance Body.

The MFA covers well over four fifths of the world trade in textiles and clothing, representing a value of about \$80 billion.

MAN-MADE FIBER PRODUCTION INCREASED 2½% IN 1981

Last year, U.S. production of man-made fibers totaled 9,817.1 million pounds, 2½% above the 9,565.8 million pounds produced during 1980 but 5½% below the record high 10,380.8 million pounds in 1979. Cellulosic production totaled 770.1 million pounds during 1981, down 4½% from the 806.0 million pounds produced during the previous year. Non-cellulosic fiber production, at 8,005.9 million pounds, was 1½% above that produced during 1980 and textile glass fiber output increased 20% to a record 1,041.1 million pounds.

The table below shows the annual growth rates for the 13 year period 1960-1973 and the 8 year period 1973-1981 by fiber for the U.S. fiber industry.

	ANNUAL GROWTH RATES	
	1960-1973	1973-1981
	%	%
Cellulosic Fibers		
Nylon	1.47	0.81
Acetate	3.70	0.89
Total R+A	2.15	-6.84
Non-Cellulosic Fibers		
Nylon	15.65	0.88
Polyester	29.15	+7.0
Acrylic	15.94	0.89
Olefin	32.12	0.15
Other	3.17	+1.9
Total Non-Cell.	18.73	3.02
Total Man-Made Above	12.25	1.70
Glass	11.00	5.50
Total Man-Made Fibers	12.38	2.04

NON-CELLULOSIC OUTPUT INCREASED 1½% DURING 1981

Production of non-cellulosic fibers increased 1½% last year, to 8,005.9 million pounds, from the 7,892.5 million pounds produced in 1980, but 5% less than the record 8,436.0 million pounds produced in 1979. Last year's output of non-cellulosic yarn+monofilaments totaled 3,814.8 million pounds, an increase of 2% from the 3,744.3 million pounds produced in 1980. Non-cellulosic staple+tow+fiberfill output during 1981 increased 1% to 4,191.1 million pounds from 1980's production of 4,148.2 million pounds.

Production of olefin yarn (642.9 million pounds), saran and spandex yarn (22.0 million pounds), polyester staple (2,606.5 million pounds) and olefin+vinyon staple (142.0 million pounds) were all at new record high levels.

COMPARISON OF 1981 AND 1980 PRODUCTION OF NON-CELLULOSIC FIBERS

Following is a by-fiber comparison of 1981 and 1980 production of non-cellulosic fibers and the percentage change thereof.

For yarn+monofilaments the respective data (in million pounds) are: nylon+aramid 1,580.7 & 1,631.1 & -3%; polyester 1,569.2 & 1,462.0 & +7½%; olefin 642.9 & 632.2 & +1½%; saran and spandex 22.0 & 19.0 & +16%; and total non-cellulosic yarn+monofilaments 3,814.8 & 3,744.3 & +2%.

For staple+tow+fiberfill the corresponding data are: nylon+aramid 751.8 & 726.6 & +3½%; acrylic+mod-acrylic 690.8 & 779.2 & -11%; polyester 2,606.5 & 2,526.7 & +3%; olefin+vinyon 142.0 & 115.7 & +23%; and total non-cellulosic staple+tow+fiberfill 4,191.1 & 4,148.2 & +1%.

DOMESTIC CONSUMPTION OF MAN-MADE FIBERS DECLINED 1% IN 1981

Domestic consumption of man-made fibers, i.e., domestic shipments plus imports for consumption, totaled 8,573.7 million pounds in 1981. Thus 1981 domestic consumption declined 1% from the 1980 figure of 8,677.1 million pounds. Domestic consumption of cellulosic fibers fell 4½% to 701.3 million pounds in 1981. For non-cellulosic fibers the decline was 2½% to 6,890.4 million pounds, but domestic consumption of textile glass fiber increased 12% to a record 982.0 million pounds.

Cellulosic yarn+monofilaments domestic consumption fell by 13% to 283.6 million pounds in 1981, whereas cellulosic staple+tow domestic consumption, at 417.7 million pounds, increased 2½% over 1980 levels.

(Continued on page 22)

MAN-MADE FIBER PRODUCTION

MILLION POUNDS

YEAR	RAYON+ACETATE								NON-CELLULOSIC FIBER ^{c-h}			TOTAL TO THE LEFT	TEXTILE GLASS FIBER	TOTAL MAN-MADE FIBER	
	RAYON YARN ^a			ACET YARN ^b	TOTAL YARN	STAPLE+TOW			TOTAL R+A	FIBER ^{c-h}					
	INDUS	TEXT	TOTAL			RAYON	ACET ^b	TOTAL		YARN	STAPLE				TOTAL
1960	279.4	147.0	426.4	228.2	654.5	414.0	0.00	414.0	1028.5	437.4	239.8	677.2	1705.7	1777.0	1882.7
1961	251.0	141.7	392.7	249.0	641.7	400.5	54.0	454.5	1095.2	497.2	254.7	751.9	1846.1	1499.8	1985.4
1962	272.0	148.9	420.9	305.7	726.1	500.0	40.0	540.0	1272.1	627.4	345.5	972.9	2245.0	2435.3	2548.5
1963	246.0	154.2	400.2	300.5	700.7	579.1	0.00	579.1	1348.8	712.8	445.2	1158.0	2504.8	1919.9	2606.7
1964	258.2	153.4	411.6	365.0	776.5	594.5	0.00	594.5	1441.8	847.6	550.1	1400.7	2898.5	2461.5	3078.0
1965	264.0	169.2	433.8	391.2	825.0	648.0	54.0	702.0	1527.0	907.7	782.4	1790.1	3467.1	282.8	3580.4
1966	245.8	169.7	415.5	394.4	790.8	659.2	60.0	719.2	1519.0	1104.7	918.1	2082.8	3461.8	352.4	4034.2
1967	161.2	147.9	309.1	425.6	734.7	605.4	50.0	655.4	1398.1	1215.4	1137.9	2353.3	3741.4	308.8	4050.4
1968	292.4	162.9	455.3	430.9	886.2	739.1	50.0	789.1	1594.8	1062.1	1567.3	3229.4	4825.7	402.7	5226.4
1969	108.0	150.0	258.0	455.2	713.2	558.8	45.0	603.8	1376.2	1766.9	1761.0	3527.9	5104.1	501.4	5605.5
1970	146.4	121.2	267.6	465.2	730.8	607.4	35.0	642.4	1373.2	1793.4	1792.8	3586.2	4959.4	467.8	5426.7
1971	180.4	123.0	303.4	449.5	752.9	611.7	26.5	638.2	1300.9	2187.9	2104.9	4292.8	5685.7	408.2	6151.0
1972	146.7	105.0	251.7	401.4	653.1	514.2	28.0	542.2	1394.8	2774.3	2582.4	5355.7	6750.0	571.6	7421.4
1973	121.7	76.4	198.1	437.2	635.4	496.7	25.0	521.7	1357.0	3339.6	2999.8	6339.4	7666.4	688.0	8354.4
1974	112.9	58.9	171.8	461.6	533.4	465.4	20.0	485.4	1198.8	3445.0	2780.6	6225.6	7422.4	682.0	8105.5
1975	46.1	18.7	64.8	301.3	366.1	370.9	12.0	382.9	749.0	3208.9	2676.8	5885.7	6654.7	546.5	7181.2
1976	52.8	15.8	68.6	286.9	354.5	475.4	11.0	486.4	840.9	3406.4	3420.2	6826.6	7467.5	676.0	8143.5
1977	55.8	15.4	71.2	282.0	357.2	527.0	8.0	535.0	847.7	3674.1	3653.8	7327.9	8215.6	786.7	9002.3
1978	47.0	15.0	62.0	300.9	367.9	544.6	7.0	551.6	904.5	3840.5	4052.7	7893.0	8687.5	923.8	9610.8
1979	41.7	15.1	56.8	310.6	374.4	549.4	7.0	556.4	929.8	4154.5	4282.3	8436.8	9360.4	1014.4	10380.8
1980	32.2	15.0	47.2	308.5	355.7	445.5	7.0	452.5	806.0	5744.5	4148.2	7892.5	8698.5	807.4	9567.8
1981	33.4	15.1	48.5	257.0	305.5	400.0	4.0	404.0	770.1	5814.8	4191.1	8005.9	8776.0	1041.1	9851.8

a. Rayon yarn includes industrial (high tenacity) yarn and textile (regular-intermediate tenacity) yarn+monofilaments. Beginning January 1965, the high tenacity rayon yarn of 900 denier & finer is tabulated with regular tenacity yarn.

b. Acetate includes diacetate and triacetate. The acetate staple-tow data do not include the poundages thereof produced for cigarette filtration purposes.

c. Nylon includes aramid.
d. Olefin includes polypropylene yarn+monofilaments+spunbonded-film fiber and polyethylene monofilaments+film fiber.

e. Ester means polyester.
f. Other yarn is chiefly saran and spandex in recent years.

g. Acrylic includes modacrylic.
h. Other staple-tow includes only olefin and v rayon for recent years.
Earlier years' data are on pages 8 & 9 of the January 1962 *Organon* Base Book issue and page 4 of the January-February 1971 issue.

NON-CELLULOSIC FIBER PRODUCTION DETAIL

MILLION POUNDS

YEAR	YARN+MONOFILAMENTS					STAPLE+TOW+FIBERFILL				
	NYLON ^c	OLEFIN ^d	ESTER ^e	OTHER ^f	TOTAL	NYLON ^c	ACRYL ^g	ESTER ^e	OTHER ^h	TOTAL
1960	584.8	13.7	48.9		647.4	26.8	145.7	75.2	2.1	230.8
1961	441.7	18.9	46.6		497.2	34.2	140.1	77.4	2.0	253.7
1962	562.0	24.5	41.1		627.6	50.7	170.0	119.6	5.2	345.5
1963	630.0	30.3	52.5		712.8	61.5	209.7	106.0	5.4	445.2
1964	746.1	45.4	60.1		847.6	69.3	287.7	192.4	9.7	559.1
1965	846.0	65.6	86.0		997.7	94.7	368.4	305.2	15.1	762.4
1966	961.4	100.8	102.5		1164.7	118.7	352.9	409.3	37.2	918.1
1967	944.6	118.0	152.8		1215.4	124.6	397.7	568.1	47.5	1137.9
1968	1198.4	206.6	267.1		1662.1	162.1	521.0	827.3	56.9	1567.3
1969	1198.0	292.7	376.2		1766.9	223.2	543.0	934.8	60.0	1761.0
1970	1137.9	200.4	455.1		1793.4	216.8	491.9	1022.3	61.8	1792.8
1971	1237.9	261.8	688.2		2187.9	357.4	545.2	1142.5	59.8	2104.9
1972	1465.9	346.5	951.7	11.2	2774.3	510.6	625.9	1576.2	69.7	2582.4
1973	1582.8	423.8	1319.8	13.2	3339.6	591.9	742.1	1508.0	67.8	2699.8
1974	1560.0	465.1	1408.0	11.9	3435.0	565.7	631.2	1517.5	68.2	2780.6
1975	1295.4	442.9	1458.9	11.7	3208.9	561.9	524.6	1536.2	54.1	2676.8
1976	1372.5	515.7	1404.7	13.5	3306.4	702.7	621.0	1945.6	60.9	3420.2
1977	1512.4	554.1	1592.1	15.5	3674.1	813.7	708.8	2050.1	81.2	3654.8
1978	1654.0	596.6	1563.7	16.0	3840.3	895.9	725.7	2245.8	95.8	4052.7
1979	1781.6	639.1	1715.6	18.0	4154.3	938.8	761.1	2462.2	120.2	4262.3
1980	1631.1	632.2	1462.0	19.0	3744.3	726.6	779.2	2526.7	115.7	4148.2
1981	1580.7	642.9	1569.2	22.0	3814.8	751.8	690.8	2600.5	142.0	4191.1

PRODUCERS' WASTE SHIPMENTS

MILLION POUNDS

YEAR	RAYON	NON-CELL	YEAR	RAYON	NON-CELL	YEAR	RAYON	NON-CELL	YEAR	RAYON	NON-CELL
1960	33.4	20.9	1965	51.5	55.2	1970	34.5	146.3	1975	13.2	228.7
1961	32.8	32.3	1966	44.6	66.5	1971	36.3	157.8	1976	14.7	262.5
1962	34.5	22.7	1967	36.1	92.8	1972	38.5	202.7	1977	18.5	291.0
1963	49.2	42.0	1968	44.5	122.3	1973	36.8	274.8	1978	15.7	265.9
1964	49.0	45.9	1969	59.4	140.3	1974	29.9	246.4	1979	17.2	238.6

MAN-MADE FIBER DISTRIBUTION

MILLION POUNDS

RAYON & ACETATE

RAYON & ACETATE																					
YEAR	YARN+MONOFILAMENTS							STAPLE+TOW							TEXTILE GLASS						
	PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS							PRODUCERS' SHIPMENTS						
	TO DOM. CONSUMERS ^{ab}				EX. PORTS	TOTAL	IM. PORTS	DO-MESTIC CONS	TO DOM. CONSUMERS				EX. PORTS	TOTAL	IM. PORTS	DO-MESTIC CONS	TO DOM. CONSUMERS				
	RAYON	ACET	TOTAL	EX. PORTS					RAYON	ACET ^b	TOTAL	EX. PORTS					RAYON	ACET	TOTAL	EX. PORTS	DO-MESTIC CONS
1960	491.8	220.0	622.4	25.2	645.0	2.5	624.9	514.4	57.0	571.4	4.7	575.1	59.1	440.5	148.2	0.5	154.7	148.2	0.5	154.7	
1961	585.2	240.8	626.0	55.1	659.1	1.8	627.8	611.8	51.8	663.2	2.8	666.0	47.0	500.2	147.2	0.0	154.2	147.2	0.0	154.2	
1962	580.6	281.7	660.5	44.9	711.2	2.0	668.9	699.2	44.4	545.0	5.8	547.4	50.0	504.5	177.5	0.0	184.1	177.5	0.0	184.1	
1963	580.7	405.0	685.7	40.7	725.4	1.7	687.4	578.8	57.5	650.5	4.9	604.2	110.5	752.8	182.0	8.5	190.5	182.0	8.5	190.5	
1964	889.0	564.8	763.4	28.5	791.9	5.2	786.0	575.7	57.5	635.2	7.7	640.0	114.5	747.7	220.0	11.8	232.4	220.0	11.8	232.4	
1965	899.5	566.4	775.7	22.1	797.8	6.8	782.5	640.5	54.4	690.7	8.4	699.1	77.2	707.0	208.2	18.7	226.9	208.2	18.7	226.9	
1966	889.0	687.5	777.1	15.2	792.3	4.7	780.8	640.5	50.0	695.5	9.4	704.9	114.8	810.5	414.2	7.0	422.1	414.2	7.0	422.1	
1967	511.1	421.0	742.1	18.2	760.3	7.7	740.8	625.9	49.5	675.4	4.5	670.7	85.0	700.4	302.7	8.2	310.9	302.7	8.2	310.9	
1968	454.5	420.4	770.9	17.0	797.5	14.0	794.5	720.0	48.5	738.5	5.4	744.0	125.0	803.5	388.7	12.1	400.8	388.7	12.1	400.8	
1969	294.7	444.7	749.4	10.0	755.4	4.1	745.5	747.9	42.5	780.2	5.0	785.2	91.2	871.4	400.4	17.7	418.1	400.4	17.7	418.1	
1970	251.1	444.8	695.9	38.5	734.2	5.7	699.0	500.0	34.5	654.2	7.8	662.0	80.0	714.8	404.2	20.0	424.2	404.2	20.0	424.2	
1971	297.0	452.5	729.5	33.2	762.5	5.2	744.5	645.0	20.2	669.8	4.7	674.5	81.3	751.1	400.0	17.4	417.4	400.0	17.4	417.4	
1972	246.9	485.0	642.8	25.9	650.7	10.8	645.0	600.7	27.7	718.4	2.0	720.4	51.5	769.7	550.8	17.5	567.4	550.8	17.5	567.4	
1973	107.0	492.5	589.0	60.7	650.0	18.1	608.0	700.5	25.0	734.5	14.7	749.2	47.4	781.0	605.0	30.5	635.5	605.0	30.5	635.5	
1974	154.1	520.5	474.4	48.8	522.2	9.2	482.0	560.5	19.7	589.2	40.0	625.2	58.7	627.0	619.5	48.0	657.5	619.5	48.0	657.5	
1975	74.9	295.7	368.0	32.9	401.5	9.2	477.8	375.4	12.0	485.4	20.2	495.6	47.9	424.8	524.0	18.5	542.0	524.0	18.5	542.0	
1976	165.1	249.4	414.5	40.5	454.8	25.1	489.0	461.0	11.0	472.0	45.0	507.0	43.2	515.2	665.3	35.0	698.5	665.3	35.0	698.5	
1977	181.1	259.4	427.5	25.2	452.7	23.5	451.0	444.9	8.0	452.0	62.3	515.2	57.8	510.7	769.5	28.0	798.2	769.5	28.0	798.2	
1978	133.0	274.0	407.0	27.0	405.2	25.7	405.5	450.2	7.0	460.2	90.5	502.7	41.1	507.8	804.9	27.7	832.6	804.9	27.7	832.6	
1979	55.0	288.4	343.4	51.8	375.2	15.5	325.0	462.4	7.0	449.5	10.5	460.0	912.2	48.5	900.5	10.4	912.2	48.5	900.5	10.4	912.2
1980	47.5	269.2	316.7	32.7	349.4	8.5	325.0	490.7	7.0	507.7	61.0	458.7	10.5	468.0	807.1	48.0	915.7	807.1	48.0	915.7	
1981	40.0	220.5	272.9	34.8	307.7	10.7	285.0	500.9	4.0	490.9	50.8	460.7	10.8	417.7	904.8	35.2	990.0	904.8	35.2	990.0	

NON-CELLULOSIC

YEAR	YARN+MONOFILAMENTS								STAPLE+TOW+FIBERFILL											
	PRODUCERS' SHIPMENTS								PRODUCERS' SHIPMENTS											
	TO DOMESTIC CONSUMERS					EX. PORTS	TOTAL	IM. PORTS	DO-MESTIC CONS	TO DOMESTIC CONSUMERS					EX. PORTS	TOTAL	IM. PORTS	DO-MESTIC CONS		
										NYLON ^c	ACRYL ^a	ESTER ^e	OTH ^h	TOTAL						
1960	547.8	15.2	57.6	598.0	42.4	450.9	2.2	400.8	27.7	110.0	64.0	2.5	210.2	20.2	246.4	2.4	212.0			
1961	419.0	17.5	50.1	472.0	25.2	407.8	4.7	477.4	36.0	123.8	70.9	5.0	243.7	22.5	256.0	5.2	246.9			
1962	504.1	22.5	58.1	563.7	41.1	604.8	7.0	570.7	47.5	147.1	115.3	5.0	315.5	18.5	333.8	15.9	327.4			
1963	570.9	20.1	48.9	648.9	35.2	692.1	6.5	655.2	54.5	201.5	150.7	5.0	411.5	18.5	429.8	8.8	420.5			
1964	685.9	44.2	65.6	795.7	62.8	856.5	4.7	797.4	68.5	205.2	177.5	8.0	517.0	54.1	551.7	19.2	536.8			
1965	781.9	60.1	77.2	919.2	40.1	965.3	8.5	927.7	85.1	321.5	200.4	14.5	715.5	42.5	745.8	52.1	705.0			
1966	889.0	94.6	81.4	1069.4	54.4	1123.8	12.5	1081.9	108.8	328.0	372.1	55.1	842.0	60.7	881.7	61.0	903.0			
1967	967.4	110.1	135.0	1198.5	58.6	1220.9	16.4	1184.7	120.6	371.2	547.2	40.5	1009.5	60.5	1129.8	65.2	1132.0			
1968	1085.8	109.0	220.7	1515.0	84.5	1600.5	55.7	1555.7	157.2	407.1	756.1	52.4	1432.8	72.2	1505.0	89.8	1522.0			
1969	1065.4	188.6	353.0	1607.0	84.9	1701.4	42.5	1649.0	202.7	475.4	885.5	61.7	1021.1	100.5	1121.6	67.5	1088.0			
1970	1052.6	187.0	435.0	1674.6	82.4	1756.9	120.8	1605.4	201.2	480.7	992.9	57.5	1082.1	108.0	1190.7	57.7	1170.8			
1971	1206.7	246.5	650.8	2104.0	78.5	2178.0	254.4	2354.5	530.1	465.7	1111.4	58.9	1904.1	150.5	2094.6	94.8	2057.4			
1972	1450.0	312.4	945.4	2707.8	87.4	2777.2	224.5	2914.5	476.0	546.0	1286.0	63.0	2463.1	174.1	2557.2	105.7	2460.8			
1973	1544.7	595.4	1320.5	3460.6	127.4	3601.1	140.1	3415.8	580.8	662.0	1540.3	69.5	2848.4	233.0	3081.4	112.8	2961.2			
1974	1408.8	426.3	1295.2	3130.3	140.6	3282.9	92.1	3254.4	487.8	514.9	1598.1	50.7	2480.5	195.4	2675.9	74.2	2525.7			
1975	1289.7	436.1	1477.0	3202.8	104.5	3319.5	58.8	3268.0	557.9	467.5	1473.0	54.7	2533.5	209.9	2743.4	55.2	2698.7			
1976	1279.5	482.0	1575.9	3337.4	138.5	3465.7	64.0	3211.2	665.4	517.5	1777.2	58.0	3018.5	247.4	3265.9	67.8	3085.5			
1977	1596.2	559.0	1510.6	3665.8	159.0	3820.4	92.5	3555.9	701.7	619.8	1880.3	81.3	3374.1	270.0	3644.1	52.0	3420.0			
1978	1589.1	579.7	1507.6	3676.4	197.5	3883.9	52.2	3904.1	870.4	571.0	1967.5	90.0	3505.5	411.4	4016.9	60.5	3560.0			
1979	1651.5	624.2	1525.1	3799.8	319.5	4119.9	20.0	3817.6	915.2	546.0	2154.4	119.5	3715.5	503.2	4200.7	80.5	3752.8			
1980	1558.9	611.7	1365.4	3535.0	301.8	3835.8	19.6	3551.0	711.2	585.3	2071.0	115.0	3462.5	689.8	4172.3	55.0	3518.1			
1981	1494.5	628.5	1450.0	3573.0	282.5	3755.0	18.9	3502.0	690.4	494.1	2005.4	132.0	3427.9	820.4	4168.5	60.5	3508.4			

Domestic consumption (CONS) means the sum of producers' domestic shipments and imports for consumption.

Imports for consumption (IMPORTS): yarn+monofil includes yarn singles, monofilaments & strips, staple+tow includes grouped filaments. Not included here are plied, spun & handwoven yarns, sewing thread,

sliver, tops & roving and waste.

a. h. See these lettered footnotes on the opposite page.

Non-cellulosic data from 1940 are on page 5 of the January-February 1971 issue. Rayon+acetate data from 1911 are on page 9 of the January 1962 Organon Base Book.

QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
YARN+MONOFILAMENTS^a															
ACETATE															
PRODUCTION	78.2	78.4	78.8	81.2	316.6	80.0	82.1	77.5	68.9	308.5	61.4	75.0	65.8	54.8	257.0
SHIPMENTS DOMESTIC	71.8	72.2	72.0	72.4	288.4	72.0	71.9	64.7	50.7	259.2	55.4	60.0	57.0	45.4	220.5
EXPORT	6.4	6.2	6.7	8.8	31.8	8.0	8.7	7.7	8.5	32.7	10.0	8.8	7.7	7.7	34.8
TOTAL	81.2	79.5	78.7	80.8	320.2	80.7	80.6	72.4	68.2	301.9	64.0	78.7	65.3	53.1	261.1
ENDING STOCK	12.4	11.5	11.6	11.8		11.1	12.0	11.7	18.4		15.8	12.1	12.0	14.5	
NYLON+ARAMID															
PRODUCTION	642.5	640.0	640.0	650.2	2572.7	655.1	698.8	651.0	647.8	2652.7	655.1	628.0	603.9	615.7	2502.7
SHIPMENTS DOMESTIC	605.8	624.0	603.1	601.9	2434.8	610.0	650.9	647.7	624.5	2533.1	580.5	580.1	540.4	597.4	2300.4
EXPORT	35.1	54.0	87.1	59.5	235.7	35.2	34.0	58.8	60.0	148.0	40.5	35.5	29.0	24.0	128.7
TOTAL	640.6	678.0	690.2	661.2	2670.5	645.2	684.9	706.5	684.5	2681.1	620.8	615.6	569.4	621.4	2429.1
ENDING STOCK	158.0	140.0	142.4	100.4		162.8	175.7	121.1	104.0		118.0	125.5	158.0	152.4	
OLEFIN^b															
PRODUCTION	155.1	101.4	157.0	105.0	518.5	168.1	152.8	140.8	104.5	566.2	103.0	105.0	103.5	150.5	462.0
SHIPMENTS DOMESTIC	150.0	100.5	154.0	103.5	508.0	150.0	145.0	147.5	105.0	547.5	104.5	158.0	155.0	150.4	567.9
EXPORT	5.1	0.9	3.0	1.5	10.5	8.1	7.8	3.3	9.5	28.7	8.5	7.0	8.5	10.1	54.1
TOTAL	155.1	101.4	157.0	105.0	518.5	168.1	152.8	140.8	104.5	566.2	113.0	165.0	163.5	160.5	622.0
ENDING STOCK	72.2	68.7	60.4	67.1		72.1	75.7	70.8	60.0		61.0	62.5	60.2	61.7	
POLYESTER															
PRODUCTION	450.0	457.5	468.0	468.8	1784.3	466.2	448.7	447.0	480.2	1842.1	478.7	410.0	404.9	470.0	1763.6
SHIPMENTS DOMESTIC	400.1	402.8	452.0	464.2	1719.1	409.2	410.7	420.4	405.1	1645.4	454.1	402.5	404.8	418.0	1679.4
EXPORT	49.9	54.7	44.0	40.2	198.8	57.0	48.0	26.6	29.1	161.5	40.5	41.0	34.1	47.7	184.2
TOTAL	450.0	457.5	468.0	468.8	1784.3	466.2	448.7	447.0	480.2	1842.1	494.6	443.5	438.9	465.7	1863.6
ENDING STOCK	155.5	154.4	157.9	152.5		144.9	131.0	120.8	117.8		112.1	104.5	103.8	124.0	
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	1057.2	1059.0	995.0	1024.0	4135.2	1017.4	889.8	810.0	1001.5	3718.7	977.7	1006.0	971.5	884.2	3769.4
SHIPMENTS DOMESTIC	902.0	987.1	986.1	925.4	3799.6	942.1	805.5	815.4	951.0	3504.0	808.0	937.2	860.2	760.5	3306.9
EXPORT	72.4	75.1	80.9	85.0	313.4	75.8	80.5	71.8	75.0	301.8	75.5	75.1	68.0	65.5	262.5
TOTAL	1054.5	1062.2	995.0	1010.4	4099.9	1017.9	885.8	887.2	1024.0	3815.8	974.4	1010.5	928.8	846.0	3569.4
ENDING STOCK	360.5	363.7	360.0	370.8		370.5	383.5	312.7	280.5		292.0	291.0	354.4	357.0	
DOMESTIC SHIPMENTS	902.0	987.1	986.1	925.4	3799.6	942.1	805.5	815.4	951.0	3504.0	808.0	937.2	860.2	760.5	3306.9
IMPORTS TEXTILE YARN ^c	1.1	1.0	1.4	0.9	4.4	0.0	0.9	1.9	1.7	5.1	1.4	2.7	2.1	2.2	8.4
OTHER YARN ^c	5.2	4.5	5.0	2.0	16.7	5.1	5.7	5.0	2.5	12.1	2.2	5.1	5.5	2.8	11.4
MONOFILAMENTS	0.5	0.5	0.5	0.9	2.4	1.4	1.5	0.8	0.5	4.0	0.5	0.8	0.9	0.4	2.6
TOTAL IMPORTS	6.8	6.0	6.9	3.8	23.5	6.5	7.1	7.7	4.7	21.2	4.1	8.6	8.5	5.4	22.4
TOTAL AVAILABLE	968.8	995.1	991.0	929.8	3823.3	947.2	811.4	821.1	955.5	3545.2	968.0	943.8	866.5	771.7	3495.0
TEXTILE GLASS FIBER															
PRODUCTION	252.1	278.8	263.7	249.8	1044.4	242.5	224.0	185.5	217.7	869.7	257.1	260.2	280.0	265.2	1042.5
SHIPMENTS DOMESTIC	228.0	260.5	207.1	210.8	906.4	249.7	181.2	182.4	258.8	869.7	222.4	275.8	249.0	228.0	905.8
EXPORT	9.2	11.5	15.5	14.1	48.3	15.2	15.8	10.1	9.5	48.0	9.8	7.5	8.5	9.4	45.2
TOTAL	237.2	271.8	220.0	240.0	960.5	264.9	195.0	192.5	268.3	917.7	232.2	283.3	257.5	237.4	951.0
ENDING STOCK	95.5	100.5	143.0	152.5		120.9	158.0	149.7	104.1		109.0	87.9	121.0	140.2	
IMPORTS	2.4	5.5	2.7	2.0	10.6	2.0	2.0	1.7	1.6	7.3	2.0	2.7	7.4	5.5	18.2
TOTAL AVAILABLE	240.4	265.6	269.8	248.8	971.1	257.7	185.2	184.1	270.4	925.0	234.2	276.0	264.9	242.9	969.2

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

Imports are imports for consumption, as reported by the U. S. Census Bureau.

a Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only, see pages 20 & 21 herewith for further details on these yarns.

b Olefin Yarn+Monofilament data also include film fiber as well as

spunbonded polypropylene.

c Yarn imports include singles and plied.

d Acetate staple-tow data are available annually only, see pages 20 & 21 herewith for further details.

e These figures are composites of the nylon, acrylic/modacrylic, polyester and olefin staple imports, i.e. Commodity Numbers 309, 338, 4342, 4345 & 4346.

Domestic consumption of non-cellulosic yarn+monofilaments, at 3,502.0 million pounds, was 1½% below 1980 levels, while consumption of non-cellulosic staple+tow+fiberfill declined 3½% to 3,388.4 million pounds during 1981.

U.S. MAN-MADE EXPORTS INCREASED 9½% IN 1980

According to the U.S. Census Bureau, exports of man made fiber in 1981 totaled 1,489,971 thousand pounds.

QUARTERLY MAN-MADE FIBER DATA (Continued)

MILLION POUNDS

ITEM	1979					1980					1981				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON															
STAPLE+TOW ^d															
PRODUCTION	142.7	142.7	128.1	155.9	549.4	126.0	135.4	101.0	102.0	464.4	110.5	114.1	118.5	111.7	454.8
SHIPMENTS DOMESTIC	117.0	110.5	105.9	108.0	441.4	114.2	92.0	87.5	99.0	492.7	100.2	104.5	100.7	91.5	496.9
EXPORT	20.5	22.5	27.8	25.5	100.1	14.0	17.8	16.2	15.0	63.0	14.0	15.2	16.2	16.4	59.8
TOTAL	144.0	152.8	133.7	152.1	542.5	128.2	110.4	103.5	109.0	455.7	114.2	119.7	116.9	107.9	456.7
ENDING STOCK	27.5	37.4	51.8	45.0		34.8	37.8	54.8	27.2		29.5	24.7	27.3	31.1	
DOMESTIC SHIPMENTS	117.0	110.5	105.9	108.0	441.4	114.2	92.0	87.5	99.0	492.7	100.2	104.5	100.7	91.5	496.9
IMPORTS FOR CONSUMPTION															
STAPLE	0.5	4.5	2.0	1.5	14.0	1.4	1.5	2.4	2.9	8.0	3.0	3.3	3.0	3.8	14.0
GROUPE FILAMENTS	0.5	0.0	0.7	0.5	2.0	0.7	0.7	0.5	0.0	2.4	0.4	0.7	0.0	0.5	2.2
TOTAL IMPORTS	0.8	5.2	2.7	1.8	16.5	2.1	2.0	2.7	3.5	10.5	3.4	4.0	3.5	4.3	16.8
TOTAL AVAILABLE	124.4	115.5	108.6	110.4	458.9	116.3	94.0	90.0	100.1	401.0	104.2	108.8	104.2	95.8	414.7
NYLON*ARAMID															
PRODUCTION	255.4	240.9	255.0	254.9	996.8	214.0	128.5	161.2	225.1	729.8	214.0	255.2	185.8	117.0	771.8
SHIPMENTS DOMESTIC	240.1	245.0	227.8	219.4	932.3	171.9	155.2	187.0	218.5	712.6	204.8	215.0	155.4	120.5	695.7
EXPORT	7.2	7.4	8.4	8.5	31.5	8.8	0.1	7.7	0.5	31.0	7.4	8.1	4.9	5.2	25.1
TOTAL	247.3	252.4	236.2	227.9	963.8	180.7	155.3	194.7	219.0	743.6	212.2	223.1	160.3	125.7	720.8
ENDING STOCK	52.8	40.4	45.8	51.0		84.5	75.5	59.2	54.5		57.5	48.5	72.4	64.8	
IMPORTS	0.5	0.4	0.7	0.5	2.4	0.5	0.5	0.5	0.0	1.7	4.0	0.0	0.5	2.8	25.0
TOTAL AVAILABLE	240.9	250.5	228.5	219.0	915.0	172.2	155.7	187.0	219.0	712.0	204.7	222.5	160.7	125.3	720.0
ACRYLIC*MODACRYLIC															
PRODUCTION	187.5	192.4	184.2	197.2	761.3	200.4	197.7	182.1	195.0	775.2	180.8	170.8	160.8	150.4	692.8
SHIPMENTS DOMESTIC	154.7	140.5	125.0	149.0	549.0	161.6	155.7	125.0	145.1	588.4	150.2	157.0	125.5	105.4	538.1
EXPORT	52.2	50.5	61.0	54.1	217.8	50.0	45.9	47.1	44.2	185.8	55.1	50.5	42.5	52.5	200.4
TOTAL	186.9	192.0	186.0	199.1	766.8	211.2	199.0	172.0	187.5	774.2	185.3	187.5	168.0	157.9	694.5
ENDING STOCK	70.2	60.0	57.0	60.7		54.0	53.0	65.1	68.8		74.5	65.8	64.0	65.1	
IMPORTS	2.8	4.5	3.5	2.4	13.0	3.4	3.5	2.0	3.0	11.9	3.0	2.7	2.0	2.2	10.5
TOTAL AVAILABLE	157.5	150.0	129.1	142.4	559.0	165.0	160.0	127.5	140.1	588.0	155.8	160.7	125.5	107.6	590.0
OLEFIN*VINYON															
PRODUCTION	20.1	32.5	28.2	30.0	110.8	30.7	30.5	20.5	28.2	110.0	31.5	35.1	37.1	38.5	142.2
SHIPMENTS DOMESTIC	30.1	31.4	28.0	29.8	119.3	28.9	26.5	27.0	32.8	115.2	31.0	35.5	32.2	32.4	131.0
EXPORT	0.1	0.5	1.4	1.7	3.5	1.4	0.5	1.0	0.8	3.7	0.4	0.5	0.4	0.4	1.5
TOTAL	30.2	31.9	29.4	31.5	122.8	30.3	26.8	28.0	33.6	118.9	31.4	35.8	32.6	32.8	134.5
ENDING STOCK	21.7	22.3	21.1	20.2		20.0	24.1	22.0	17.2		10.2	15.5	20.0	25.7	
POLYESTER															
PRODUCTION	600.0	605.5	618.2	631.9	2455.6	654.5	585.2	580.0	600.0	2519.7	640.0	648.0	645.0	628.0	2551.0
SHIPMENTS DOMESTIC	537.6	543.4	522.8	530.0	2133.4	563.1	483.8	460.8	557.5	2065.2	605.2	525.0	507.5	478.8	2096.5
EXPORT	85.1	50.8	82.2	107.7	325.8	84.8	111.1	150.2	150.5	406.6	129.0	148.2	161.0	154.0	503.4
TOTAL	622.7	605.2	605.0	638.5	2459.2	647.9	594.9	611.0	708.0	2501.8	734.2	673.2	668.5	632.8	2599.9
ENDING STOCK	170.1	172.4	185.0	179.2		185.0	174.0	160.5	160.5		180.5	185.1	170.0	174.2	
IMPORTS	0.8	1.1	0.5	0.7	3.1	0.4	0.5	0.5	0.5	1.9	0.5	1.0	1.8	2.4	6.0
TOTAL AVAILABLE	548.4	544.5	523.3	531.3	2137.5	563.5	484.1	460.7	557.5	2072.4	605.7	526.8	509.3	481.2	2092.5
TOTAL NON-CELLULOSIC															
PRODUCTION	1050.4	1067.1	1064.2	1094.0	4282.3	1105.4	940.5	950.4	1145.9	4142.2	1085.0	1110.0	1051.5	940.8	4101.3
SHIPMENTS DOMESTIC	932.5	957.0	904.2	919.8	3713.5	925.5	790.0	806.5	951.7	3482.5	860.1	914.5	818.0	734.9	3327.9
EXPORT	144.0	123.8	153.0	171.8	592.6	145.0	161.0	162.0	190.6	680.8	191.8	200.9	209.0	212.7	820.4
TOTAL	1077.1	1080.8	1057.2	1091.6	4306.1	1070.1	950.0	968.5	1142.5	4163.3	1051.9	1112.2	1027.0	947.6	4148.3
ENDING STOCK	314.8	301.1	308.1	311.1		345.4	324.5	285.4	287.0		318.1	312.0	330.0	320.8	
DOMESTIC SHIPMENTS	932.5	957.0	904.2	919.8	3713.5	925.5	790.0	806.5	951.7	3482.5	860.1	914.5	818.0	734.9	3327.9
IMPORTS FOR CONSUMPTION															
FIBERS AVAILABLE ^e	4.4	5.8	4.7	3.0	18.5	4.1	5.2	3.5	3.0	16.5	9.0	11.2	15.1	7.4	40.7
OTHER NON-STAILE	4.2	3.8	3.0	3.0	15.8	3.0	3.4	3.1	4.2	14.0	2.4	3.3	4.0	1.0	10.7
GROUPE FILAMENTS	1.0	1.5	1.5	1.4	5.0	1.6	1.5	0.0	1.0	4.5	1.5	2.0	2.1	2.6	8.0
TOTAL IMPORTS	9.6	10.9	9.0	8.9	49.3	9.0	9.9	7.0	9.1	35.0	12.7	16.5	19.2	11.0	59.4
TOTAL AVAILABLE	942.1	967.9	914.1	928.7	3752.8	934.1	800.0	815.5	960.8	3518.1	872.8	930.8	837.8	745.9	3387.3

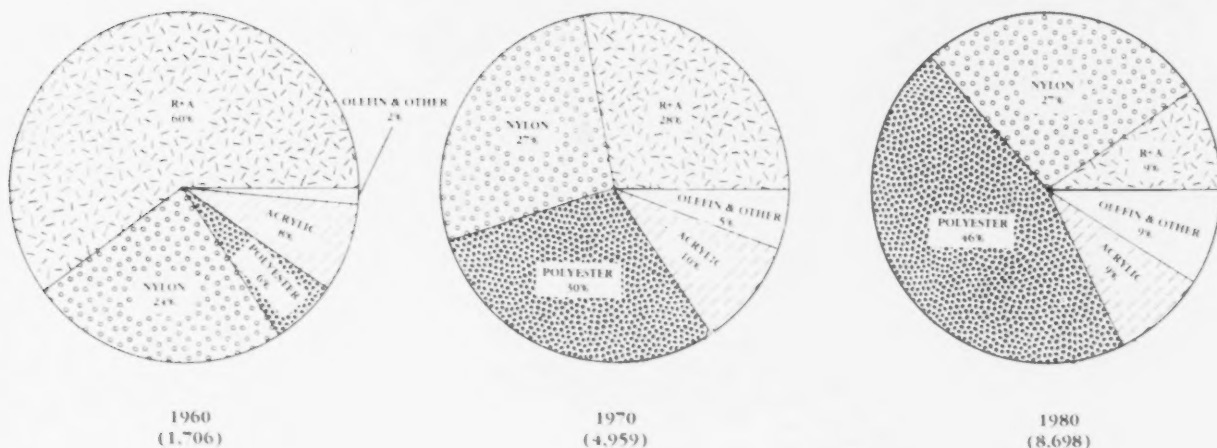
an increase of 9½% from the 1,362,715 thousand pounds exported during 1980.

Exports of cellulosic yarn+monofilaments decreased

8½% in 1981 to 24,707 thousand pounds and those of cellulosic staple+tow declined 13% to 62,160 thousand

(Continued on page 25)

U.S. PRODUCTION OF MAN-MADE FIBERS



FILAMENT YARN DOMESTIC SHIPMENTS BY DENIER

MILLION POUNDS

ACETATE

DENIER	1976	1977	1978	1979	1980	1981
55 (1/2 & FINE)	65.5	62.5	67.1	68.0	66.1	45.3
75 (1/2 & FINE)	52.4	66.1	72.3	64.8	67.5	62.3
100 (88-112)	14.8	15.0	20.2	26.5	31.4	26.6
150 (115-162)	88.1	89.5	91.5	108.0	87.6	77.5
200 (165-177)	2.7	2.5	2.4	3.4	2.6	1.5
500 (248-374)	12.6	10.4	9.6	9.7	7.4	7.3
450 (375 & COARSER)	16.1	15.6	11.7	8.1	6.7	5.8
TOTAL DOMESTIC SHIPMENTS	249.4	259.4	274.6	288.4	269.2	226.3
<i>Average Denier^a</i>	<i>93</i>	<i>91</i>	<i>90</i>	<i>92</i>	<i>88</i>	<i>91</i>

POLYESTER TEXTILE

DENIER	1976	1977	1978	1979	1980	1981
55 & FINE	15.0	22.2	25.9	40.1	37.4	48.6
70 (86-89)	87.7	146.8	212.5	215.0	191.3	147.9
100 (90-100)	47.4	61.0	58.1	65.4	52.6	41.4
120 (110-129)	13.5	12.4	18.6	4.8	2.8	68.9
135 (140-144)	18.2	23.2	15.3	18.6	10.1	10.1
150 (145-179)	819.1	869.1	783.7	765.2	738.6	745.1
180 & COARSER ^c	49.5	42.5	49.8	66.8	65.3	68.9
TOTAL DOMESTIC SHIPMENTS	1040.2	1167.2	1163.9	1163.9	1078.0	1120.8
<i>Average Denier^a</i>	<i>130</i>	<i>124</i>	<i>116</i>	<i>116</i>	<i>118</i>	<i>121</i>

NYLON TEXTILE

DENIER	1976	1977	1978	1979	1980	1981
MONOFILS & FEWOFILS^b	26.5	23.3	27.9	31.7	29.1	24.5
FILAMENT YARN						
34 & FINE	41.3	42.6	41.9	48.0	35.9	39.8
40 (45-50)	124.7	152.5	164.1	177.5	155.4	142.8
70 (60-89)	114.2	124.2	122.0	112	109.0	85.7
100 (90-109)	58.9	48.7	45.6	43.7	42.7	43.4
150 (110-179)	10.5	18.5	20.2	21.2	21.1	26.2
200 (180-200)	15.0	11.4	19.7	18.6	18.2	19.7
205 & COARSER ^c	42.1	41.4	44.3	18.1	15.2	17.5
TOTAL DOMESTIC SHIPMENTS	412.0	432.6	482.8	461.2	426.6	398.6
<i>Average Denier^a</i>	<i>48</i>	<i>49</i>	<i>48</i>	<i>45</i>	<i>46</i>	<i>47</i>

NYLON CARPET

DENIER	1976	1977	1978	1979	1980	1981
1199 & FINE	296.7	369.0	443.8	479.2	460.6	138.4
1200-1499						331.7
1800 (1500-1999)	69.3	114.8	126.6	131.2	149.4	88.9
2600 (1901-2700)	135.9	114.7	89.4	100.7	84.8	55.5
2701 & COARSER	16.8	19.3	18.0	21.4	19.7	19.1
TOTAL DOMESTIC SHIPMENTS	528.7	617.8	677.8	732.5	714.5	633.6
<i>Average Denier^a</i>	<i>1603</i>	<i>1557</i>	<i>1503</i>	<i>1506</i>	<i>1503</i>	<i>1448</i>

a. Average Denier calculated by harmonic mean method.

b. Monofilaments up to 40 denier. Fewofils are multifilament yarns with 4 or fewer filaments in the bundle.

c. Includes low denier industrial yarn through 1978.

pounds. For non-cellulosic yarn+monofilaments, 1981 exports increased 30% to 463,424 thousand pounds while exports of non-cellulosic staple+tow increased 8% to 790,682 thousand pounds.

QUARTERLY MAN-MADE FIBER DATA

The tables on pages 22 and 23 detail U.S. man-made fiber producers' production, domestic shipments, direct export shipments and stock of man-made fibers (except rayon & saran and spandex yarn+monofilaments and acetate staple+tow) on a quarterly basis for the most recent years.

The difference between the exports reported by the U.S. Census Bureau (page 38 herewith) and those reported on pages 22 and 23 is due to exports other than those shipped directly by the fiber producer. For example, if the fiber producer sells filament yarn to a texturizer to be textured, it is reported as a domestic shipment. Then, after texturing, if the texturizer exports the textured yarn, the Census Bureau reports it as an export shipment. Thus, exports as reported by the U.S. Census Bureau consist of both direct exports from the fiber producer and indirect exports from throwsters, texturizers, etc.

OSHA TO REVIEW COTTON DUST STANDARD

The Occupational Safety and Health Administration announced it is seeking new health data that "might indicate a need for a change" in the exposure limit.

Last March, OSHA announced a review of the cotton dust standard, as part of President Reagan's order that all Federal agencies weigh the costs against the potential benefits of major regulations.

Last June, in a textile industry challenge to the rule, the Supreme Court upheld the standard and broadly declared that in setting such rules, benefits should not be measured against costs.

However, administration officials decided they still could use the cost-effectiveness analysis for job safety rules. OSHA was expected to apply such a cost-effectiveness analysis initially to the cotton dust standard as a way to make it less burdensome and less costly for employers. However, the agency went much further by agreeing to take another look at the scientific support for the standard, which could lead to a significant easing.

OSHA also sought public comment on the cost and effectiveness of engineering controls and individual protective devices required by the standard. The compliance requirements for small businesses and for workplaces with low levels of cotton dust might be eased. The agency emphasized that the standard "will remain in effect during the public comment period," which ends March 26, 1982.

THE AGRICULTURE AND FOOD ACT OF 1981

The Agriculture and Food Act of 1981 was signed into law by President Reagan on December 22, 1981. The provisions of the 1981 Act provide a framework within which the Secretary of Agriculture will administer the various agriculture and food programs. The new act gives the Secretary substantial new discretionary authority to issue regulations and implement various provisions as he sees fit.

The 1981 Act is a four year authorization bill for many farm programs. Commodity provisions apply, for the most part, to the 1982 through 1985 crop years. In addition, the food stamp program, resource conservation, and PL-480 programs are dealt with by this legislation.

THE 1981 ACT AS IT APPLIES TO COTTON

Title V of the Agriculture and Food Act of 1981 extends the cotton program, with some modifications, through the 1985 crop year. Following are details of the target prices, price support loans, national program acreage, etc., as covered by the program.

The **target price** for upland cotton cannot be less than 71 cents per pound for the 1982 crop, 76 cents per pound for the 1983 crop, 81 cents per pound for the 1984 crop and 86 cents per pound for the 1985 crop. However, the actual target prices will be the higher of the minimum levels plus any adjustment for changes in cost of production, or 120% of the loan level.

Nonrecourse **price support loan** levels for upland cotton will once again be set at the lower of either (a) 85% of the average spot market price for SLM 1¹/₁₆" upland cotton at average U.S. location during three years of the five year period ending July 31 in the year in which the loan level is announced, excluding the year's highest and lowest price, or (b) 90% of the average adjusted price, for the 15 week period beginning July 1 of the year in which the loan level is announced, of the five lowest priced growths quoted for Middling 1¹/₁₆" cotton (Strict Middling 1¹/₁₆" was used in the 1977 Act), C.I.F. Northern Europe. In no event will the loan level be less than 55 cents per pound (under the 1977 Act the minimum level was 48 cents per pound). The loan level for any crop of upland cotton will be determined and announced by the Secretary no later than November 1 of the calendar year preceding the marketing year for which the loan is to be in effect. Once announced, the loan level cannot be changed.

As under the 1977 Act, price support loans mature ten months from the first day of the month in which the loan is made. Producers may, during the tenth month of the loan period, extend their loan period for an additional eight months.

The **national program acreage** (NPA), as under the

1977 Act, represents the number of harvested acres needed to meet domestic and export needs (less imports). The acreage may be adjusted for any desired increase or decrease in carryover stocks. Under the 1981 Act, the latest announcement date of the NPA for upland cotton is to be November 1, compared with December 15 under the 1977 Act.

A program allocation factor is determined by dividing the NPA acreage by the number of harvested acres, as determined by the Secretary. The allocation factor may not exceed 100%. A farm's program acreage is the product of the allocation factor and the acreage planted to upland cotton on the farm.

Individual farm program payment yields for any year are again to be determined on the basis of the actual yield per harvested acre on the farm for the preceding three years.

As under the 1977 Act, **deficiency payments** will be made to producers of each upland cotton crop if the national average price received by farmers for upland cotton, during the calendar year which includes the first five months of the marketing year, is below the target price.

With respect to the 1982 through 1985 crops of upland cotton, producers will not automatically be entitled to **disaster payments** if crop insurance is available to them under the Federal Crop Insurance Act. However, the Secretary may make disaster payments to producers whenever he determines that certain emergency conditions exist or if Federal crop insurance is not available in an area.

Producers will receive any required deficiency payments on 100% of their harvested acreage if they voluntarily reduce their acreage planted for harvest on the farm from the acreage base established for the farm, in line with the percentage recommended by the Secretary when he announces the national program acreage.

The 1981 Act continues, but modifies, the authority of the Secretary to require a reduction in the acreage planted to upland cotton. The acreage limitation will be determined by applying a uniform percentage reduction to the upland cotton base for each farm. If an acreage limitation program is in effect, producers must participate in such programs as a condition of eligibility for loans and payments.

Similar to provisions under the 1977 Act, the 1981 Act provides for a special limited **global import quota**. The amount of quota is to equal a 21 day domestic mill supply of cotton and will be opened up for any month in which the acreage spot market price of SLM 1¹/₁₆" cotton exceeds 130% of such average spot market for the preceding 36-month period.

Skiprow rules for classifying acreage to upland cotton and the area skipped in effect under the 1977 Act are continued by the 1981 Act.

As under the 1977 Act, the CCC minimum sales price cannot be less than 115% of the loan rate in effect for SLM 1¹/₁₆" upland cotton, with adjustments for grade, quality, location, etc., plus carrying charges.

The loan level for extra long staple cotton is to be not less than 75% (85% under the 1977 Act as amended) nor more than 125% (135% under the 1977 Act as amended) in excess of the loan level established for SLM 1¹/₁₆" upland cotton if marketing quotas have been approved and 50% in excess of the loan if quotas have not been approved. The provisions relating to price support payments have been deleted.

Beginning with the 1982 crop of upland cotton, the loan program requires quality differences (premiums and discounts for grade, staple and micronaire) to be established by the Secretary. These are to be determined by giving equal weights to (a) loan differences for the preceding crop and (b) market differences for such crop in the nine designated U.S. spot markets. The Secretary may adjust such differentials, according to recommendations made by a new study committee established by this Act, to accurately reflect the actual market value of upland cotton produced in the United States.

THE 1981 ACT AS IT APPLIES TO WOOL

Title II of the Agriculture and Food Act of 1981 extends the National Wool Act of 1954 through December 31, 1985. This feature of the 1981 Act requires the Secretary of Agriculture to provide supports for wool and mohair.

Support rates for shorn wool are lowered from 85.0% of the formula rate (the rate required under the 1977 Act) to 77.5%. Support at this level will be effective for the marketing years beginning January 1, 1982 and ending December 31, 1985.

The formula rate for shorn wool continues to be determined by multiplying 62 cents by the ratio of (a) the average of the parity index for the three calendar years immediately preceding the calendar year in which the support price is determined and announced to (b) the average parity index for the three calendar years 1958, 1959 and 1960, with the rate rounded to the nearest full cent. The parity index is defined as the index of prices paid by farmers for commodities and services, including interest, taxes and farm wage rates.

COTTON ACREAGE TO BE CUT BACK 15%

In a move intended to bolster sagging cotton prices, the Reagan Administration will require farmers participating in voluntary crop set-aside programs to cut back cotton acreage 15% for the 1982 crop year. The acreage reduction should decrease deficiency payments in 1982.

The acreage reduction will bring the 1982 crop plantings to 12.25 million acres from the 14.38 million acres

planted to the 1981 crop. The acreage planted in the Southwest will be cut back to 6.98 million acres (from 8.15 million acres in 1981), 2.66 million acres in the Mid-South (from 3.13 million acres) and 1.95 million acres in the West (from 2.25 million acres).

Estimates by Cotton Incorporated are that harvested acreage for the 1982 cotton crop will be 11.52 million acres. Given normal growing conditions, the 1982 crop will total some 11.8 million bales, down 25% from the 15.8 million bales produced during the 1981 crop year.

UPLAND COTTON FARMERS TO RECEIVE DEFICIENCY PAYMENTS

U.S. upland cotton farmers will shortly receive \$530 million in deficiency payments for the 1981 crop, the first time cotton farmers have benefited since the program began in 1974.

An Agriculture Department spokesman said the payments will be made to farmers having 12.8 million acres under the program, representing 89% of the 14.4 million acres planted in 1981 by U.S. upland cotton farmers.

Payments of 7.67 cents per pound of cotton are based on the difference between the average price of 63.20 cents per pound received by cotton farmers last year and the *target price* of 70.87 cents per pound.

In previous years since 1974, average market prices had always exceeded USDA's target price. But a bumper crop of 15.8 million bales in 1981 for all types of U.S. cotton brought farmers' receipts per pound down sharply and boosted the domestic cotton carryover to 6.1 million bales from 2.7 million bales a year earlier.

1982 COTTON CROP PLANTING INTENTIONS

The USDA reported on February 18th, 1982, that domestic cotton growers currently intend to plant 12,598,800 acres of cotton this year. Total plantings this year will be 1,720,100 acres, or 12%, less than plantings to the 1981 crop.

If actual plantings this year were to approximate the February 18th figure, an abandonment equal to last year's 3.5% and a yield of 546 pounds per acre (same as last year) would result in a 1982 crop of some 13.8 million bales. However, if the abandonment and yield equaled their averages for the past five years of 6.2% and 489 pounds per acre respectively, the 1982 crop would be some 12.0 million bales. Using the low yield of the past five years of 404 pounds per acre would give a crop of some 10.6 million bales and using the high yield of the past five years of 547 pounds per acre would yield a crop of 14.4 million bales.

BROAD WOVEN GOODS PRODUCTION

Cotton broad woven fabric production during the

third quarter of 1981 totaled 968.0 million square yards, a decline of 2% from second quarter 1981 production of 988.2 million square yards and 3½% less than the corresponding 1980 period. For the first nine months of 1981, production totaled 2,951.0 million square yards, 15% less than the 3,457.9 million square yards produced during the first nine months of 1980.

As compared with the second quarter of 1981, print cloth, denims, fine cotton fabrics, upholstery & tapestry and velvets were the only categories to post a gain in the latest quarter. The biggest drops were in toweling and corduroys production.

Production of woolen & worsted fabrics in the latest quarter totaled 41.1 million square yards, 27% less than second quarter 1981 production of 56.5 million square yards but 10% above that produced during the third quarter of 1980. For the first nine months of 1981, production of woolen & worsted fabrics totaled 156.0 million square yards as compared with 148.5 million square yards during the corresponding 1980 period.

Man made fiber broad woven fabric production during the third quarter of 1981 totaled 2,952.0 million square yards, ½% less than the 2,963.3 million square yards produced the previous quarter but 17% more than third quarter 1980 production of 2,516.9 million square yards. For the year to date, man made fiber broad woven fabric production totaled 8,900.5 million square yards, 12% above the 7,961.0 million square yards produced during the first nine months of 1980.

Most categories of man made broad woven fabrics were below second quarter 1981 levels. Of 100% filament yarn fabrics, only 100% nylon, textile glass and polyester combinations recorded quarter to quarter gains. In 100% spun yarn fabrics and blends, only polyester cotton, polyester rayon and polyester other blend fabrics recorded quarter to quarter gains.

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS

During the third quarter of 1981, broad woven fabric mills consumed 1,151.3 million pounds of yarn according to the U.S. Census Bureau. This represents a decrease of 4% from second quarter 1981 consumption of 1,197.4 million pounds, but is 5½% more than the 1,090.4 million pounds these mills consumed during the corresponding 1980 quarter.

Filament yarn consumption during the third quarter of 1981 totaled 375.9 million pounds, 2½% below the 384.9 million pounds consumed during the second quarter of 1981, but 17% above the 321.6 million pounds used during the third quarter of 1980. Only nylon and textile glass fibers registered gains in consumption between the second and third quarters of 1981.

(Continued on page 30)

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES MILLION POUNDS

PRODUCTS	3RD Q 1980			4TH Q 1980			1ST Q 1981			2ND Q 1981			3RD Q 1981			4TH Q 1981		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
RAYON+ACETATE																		
YARN+MONOFILAMENTS	1.8	0.7	1.9 E	2.0	7.1	5.1 E	3.4	8.4	5.0 E	2.6	6.0	3.4 E	2.6	4.5	1.9 E	2.1	5.8	3.7 E
STAPLE+TOW ^b	2.7	19.7	17.0 E	3.5	12.9	9.4 E	4.0	15.9	11.9 E	4.0	16.5	12.5 E	4.5	15.0	10.5 E	4.3	15.0	10.7 E
WASTE	0.1	1.7	1.6 E	0.1	0.8	0.7 E	0.1	0.7	0.6 E	0.1	0.8	0.7 E	0.1	0.4	0.3 E	0.2	0.9	0.7 E
SUBTOTAL ABOVE	4.6	28.1	23.5 E	5.6	20.8	15.2 E	7.5	25.0	17.5 E	6.7	23.1	16.4 E	7.2	19.9	12.7 E	6.6	21.7	15.1 E
NON-CELLULOSIC FIBERS																		
YARN+MONOFILAMENTS	5.6	92.3	86.7 E	3.8	92.1	88.3 E	3.4	115.7	112.3 E	5.7	118.0	112.3 E	5.2	119.7	114.5 E	4.6	109.9	105.3 E
STAPLE+TOW	7.1	182.0	174.9 E	9.1	195.8	186.7 E	12.8	187.0	174.2 E	16.4	207.5	191.1 E	19.1	205.1	186.0 E	12.2	191.1	178.9 E
WASTE	4.4	22.5	17.9 E	6.2	22.4	16.2 E	11.9	25.7	13.8 E	11.0	27.9	16.9 E	12.5	25.0	12.5 E	14.4	28.7	14.3 E
SUBTOTAL ABOVE	17.1	296.6	279.5 E	19.1	310.3	291.2 E	28.1	328.4	300.3 E	33.1	353.4	320.3 E	36.8	349.8	313.0 E	31.2	329.7	298.5 E
TOTAL FIBER ABOVE^c	21.7	324.7	303.0 E	24.7	331.1	306.4 E	35.6	353.4	317.8 E	39.8	376.5	336.7 E	44.0	369.7	325.7 E	37.8	351.4	313.6 E
MAN-MADE FIBER MANUFACTURES^d																		
SILVER TOPS & RYING	1.0	2.4	1.4 E	0.2	4.4	4.2 E	1.2	2.3	1.1 E	0.7	2.8	2.1 E	1.1	3.2	2.1 E	0.7	2.7	2.0 E
SILK YARNS	4.1	7.4	3.3 E	4.9	9.8	4.9 E	0.8	14.6	13.8 E	8.2	13.4	5.2 E	6.7	9.5	2.8 E	6.6	8.4	1.8 E
THREAD & CMT YARNS	0.5	1.9	1.4 E	0.6	1.6	1.0 E	0.7	1.5	0.8 E	0.8	1.3	0.5 E	0.6	1.2	0.6 E	0.8	1.5	0.7 E
TIRE CORD & FABRIC	*	2.7	2.7 E	*	31.5	31.5 E	*	14.0	14.0 E	*	12.4	12.4 E	0.1	11.8	11.7 E	0.2	9.9	9.7 E
WOVEN FABRIC	17.2	60.5	43.3 E	15.8	70.0	54.2 E	21.4	57.4	36.0 E	25.7	61.5	35.8 E	20.0	45.4	25.4 E	22.3	44.2	21.9 E
KNIT FABRIC	1.6	5.8	4.2 E	1.5	6.3	4.8 E	0.6	5.7	5.1 E	0.4	7.3	6.9 E	0.5	4.9	4.4 E	0.6	3.8	3.2 E
NARROW FABRIC	1.9	6.7	4.8 E	1.6	6.1	4.5 E	1.9	6.2	4.3 E	2.4	6.9	4.5 E	2.3	6.4	4.1 E	2.1	6.7	4.6 E
APPAREL KNIT	61.9	32.1	29.8 I	39.7	32.0	7.7 I	32.8	33.0	0.2 I	47.2	35.1	12.1 I	60.7	27.8	32.9 I	44.0	24.8	19.2 I
NOT KNIT	58.8	32.1	26.7 I	46.8	32.0	14.8 I	50.5	33.0	17.5 I	61.9	35.1	26.8 I	78.4	27.8	50.6 I	61.4	24.8	36.6 I
HOME FURNISHINGS	13.8	25.9	12.1 E	13.5	29.0	15.5 E	13.2	22.8	9.6 E	14.1	22.1	8.0 E	16.3	20.4	4.1 E	17.2	18.9	1.7 E
OTHER	15.3	15.3	0 E	15.3	15.3	0 E	16.5	16.5	0 E	18.9	18.9	0 E	15.6	15.6	0 E	15.1	15.1	0 E
TOTAL MANUFACTURES	164.0	185.5	21.5 E	124.7	205.2	80.5 E	129.1	174.0	44.9 E	161.4	181.7	20.3 E	192.7	146.0	46.7 I	155.9	136.0	19.9 I
TOTAL MAN-MADE FIBER & MANUFACTURES	181.7	510.2	328.5 E	149.4	536.3	386.9 E	164.7	527.4	362.7 E	201.2	558.2	357.0 E	236.7	515.7	279.0 E	193.7	487.4	293.7 E
COTTON MANUFACTURES^e	222.9	125.5	97.4 I	173.6	116.9	56.7 I	237.3	103.1	134.2 I	231.2	105.6	125.6 I	258.0	79.8	178.2 I	235.4	78.8	156.6 I
WOOL MANUFACTURES^f	32.1	6.4	25.7 I	21.6	5.7	15.9 I	23.5	3.5	20.0 I	29.2	3.4	25.8 I	36.5	2.7	33.8 I	24.4	2.7	21.7 I

SOURCES: The man made fiber import and export data are from the U.S. Bureau of the Census.

The man made cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

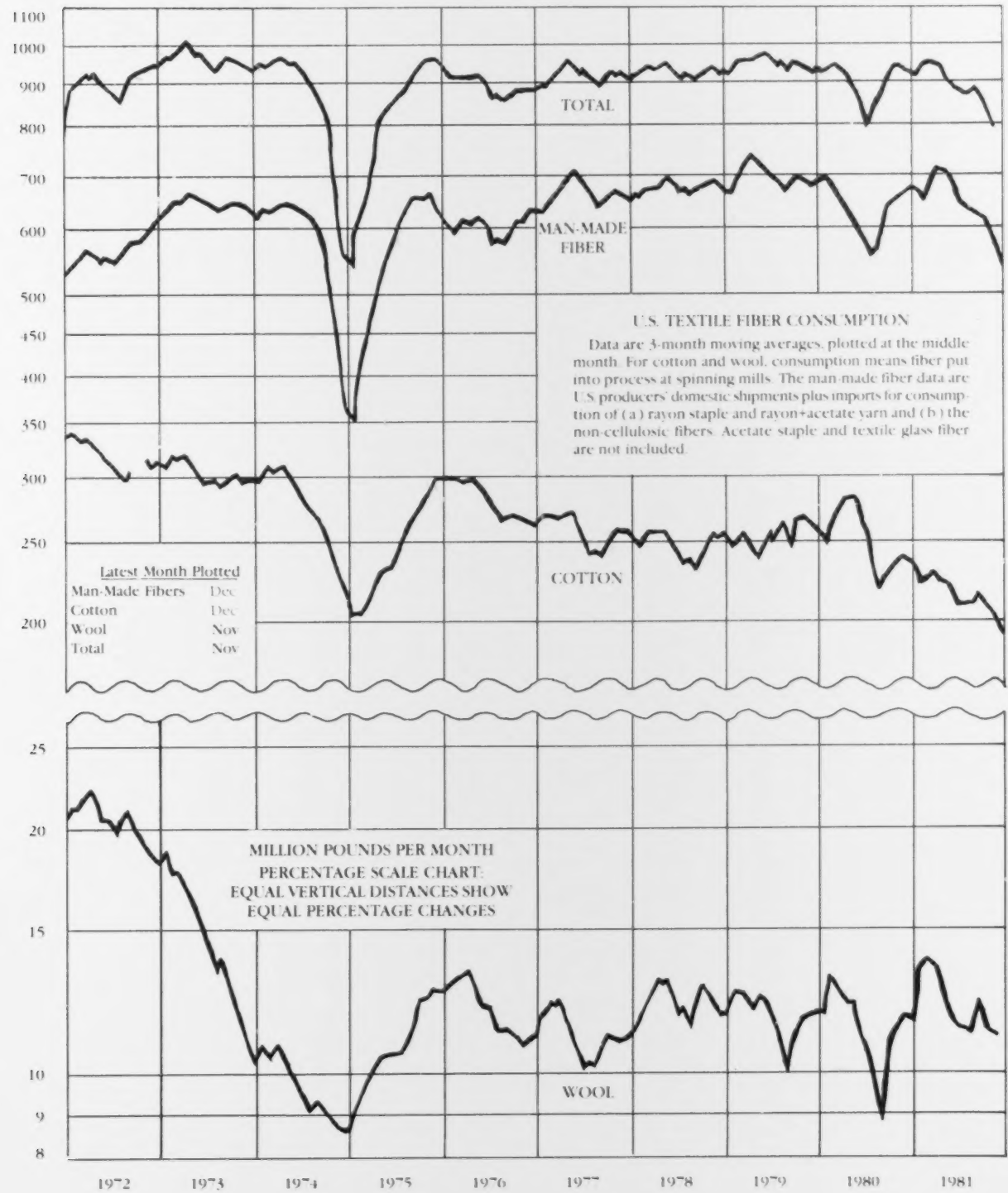
b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man Made Fiber Above" on pages 37 and 38 herewith.

d. Man made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 37 of the March 1981 *Organon* issue.

f. Raw wool content. The data differ from those on page 37 of the March *Organon* issue to the extent that noils and waste are included here.



YARN CONSUMED IN BROAD WOVEN FABRIC MILLS^a

MILLION POUNDS

YARN	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON, ACETATE & TRIMETATE	54.1	55.4	27.6	51.6	126.7	55.4	55.9	54.8				
NYLON	104.4	85.2	81.7	94.6	465.9	96.5	88.3	90.2				
POLYESTER	124.8	110.8	105.0	125.4	465.0	139.0	145.4	159.2				
TEXTILE GLASS	53.8	40.7	45.3	57.7	167.5	42.6	37.0	40.3				
CELPHIN & SARAN	74.0	67.9	74.0	112.0	518.9	107.3	80.3	71.4				
ALL OTHER	4.6	2.8										
TOTAL FILAMENT YARN ABOVE	395.7	338.8	321.6	401.3	1457.4	420.8	384.9	375.9				
SPUN YARN												
100% COTTON	564.8	548.6	511.7	551.2	1556.3	522.2	523.5	504.2				
100% WOOL	9.4	10.0	6.3	8.4	34.1	12.4	12.4	7.6				
100% ACRYLIC	6.7	8.0	7.4	6.5	28.6	5.6	6.0	5.2				
100% POLYESTER	45.4	35.1	30.8	27.8	137.1	40.5	39.7	41.6				
RAYON AND/OR ACETATE ^b	29.7	22.0	21.4	24.6	97.7	27.8	27.2	24.1				
POLYESTER COTTON BLENDS ^c	359.6	355.5	324.3	353.2	1372.6	350.5	328.0	310.4				
POLYESTER WOOL BLENDS ^c	5.1	6.0	5.5	5.0	22.2	6.4	7.6	7.7				
POLYESTER RAYON BLENDS ^c	45.4	39.4	36.0	45.7	157.4	57.8	59.1	41.0				
TOTAL SPUN YARN ABOVE	854.1	824.6	744.3	783.0	3206.0	783.1	783.4	747.8				
ALL OTHER YARNS^d	28.6	24.0	24.5	31.5	108.6	28.7	29.1	27.6				
GRAND TOTAL	1278.4	1187.4	1090.4	1215.8	4772.0	1232.6	1197.4	1151.3				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or

acetate; cotton blends, regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

TIRE CORD & TIRE CORD FABRICS PRODUCTION

MILLION POUNDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
TIRE CORD & TIRE FABRICS												
NYLON	76.0	58.2	57.6	72.5	264.3	86.9	76.4	88.9				
POLYESTER	47.0	51.4	35.0	48.3	161.7	55.2	55.1	54.5				
RAYON	6.1	5.3	8.1	7.9	16.8	4.0	3.7	3.2				
GLASS	5.1	4.1				5.1	6.3	7.5				
CHLOR & OTHER ^a	7.7	6.4	7.6	8.2	29.9	11.1	7.9	9.2				
TOTAL TIRE CORD & TIRE CORD FABRICS	141.9	105.4	108.3	136.9	492.5	162.3	149.4	163.3				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Includes a nominal amount of cotton and some steel.

(Continued from page 27)

July-September 1981 consumption of spun yarn, at 747.8 million pounds, was 412% less than the 783.4 million pounds used the previous quarter, but marginally above the 744.3 million pounds consumed during the corresponding 1980 quarter. Comparing third quarter 1981 with second quarter 1981, only 100% polyester, polyester wool and polyester rayon spun yarns recorded gains.

BROAD WOVEN CONVERSION FACTORS

During 1980, the U.S. Census Bureau changed from collecting broad woven data in linear yards to collecting them in square yards. Thus, 1980 was both the last year

using linear yards as the unit of measure and the first year using square yards. For 1979-1980, see pages 7-9 of the January *Organon* for data in linear yards and pages 31-33 herewith for 1980-1981 data in square yards. The tables on pages 34-35 show the linear yards square yards and the square yards linear yards conversion factors for man made fiber broad woven fabrics during 1980. Also note, the table on page 10 of the January issue for further conversion factors.

IMPORTS, EXPORTS & BALANCE

The United States ended 1981 with an export balance of 1,293.8 million pounds in man made fibers, as compared with 1,212.1 million pounds in 1980. For man-

BROAD WOVEN GOODS PRODUCTION

MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
COTTON FABRICS	1249.1	1206.5	1002.3	1079.3	4537.2	994.8	988.2	968.0				
DUCK & ALLIED FABRICS	28.5	25.6	21.8	17.2	93.1	19.5	26.0	25.6				
SHEETING & ALLIED FABRICS	269.7	205.8	156.3	181.1	752.9	181.6	178.0	172.2				
PRINT CLOTH YARN FABRICS	469.1	455.6	376.2	419.7	1720.6	452.9	354.6	340.6				
DENIMS	167.2	170.2	151.0	148.9	637.3	146.1	150.7	155.3				
TOWELING, WASH & DISHCLOTHS	126.5	120.1	106.5	122.5	475.6	127.8	125.1	115.9				
BLANKETING & OTHER NAPPED FABRICS	52.0	27.1	24.2	27.3	110.6	25.9	26.6	22.5				
FINE COTTON FABRICS	34.0	30.8	29.2	17.4	111.4	13.7	16.9	17.1				
CORDEUOYS	125.6	113.2	93.3	87.8	419.9	72.6	72.7	66.4				
UPHOLSTERY & TAPESTRY	6.2	9.7	7.3	6.9	30.1	5.9	7.0	7.2				
VELVETS	3.9	3.4	3.1	3.0	13.4	2.1	3.2	3.4				
DRAPERY & BEDSPREAD FABRICS	20.2	20.3	11.9	14.7	67.1	21.4	16.9	15.4				
ALL OTHER FABRICS	26.2	24.7	21.5	32.8	105.2	25.3	30.5	26.4				
WOOLEN & WORSTED FABRICS^a	55.4	55.8	37.3	40.7	189.2	58.4	56.5	41.1				
MEN'S & BOYS CLOTHING	32.0	30.3	19.2	20.6	102.1	33.0	32.7	21.9				
WOMEN'S & CHILDREN'S CLOTHING	19.2	22.3	16.2	16.9	74.6	20.1	22.8	17.7				
NONAPPAREL FABRICS	4.2	3.2	1.9	3.2	12.5	5.3	1.0	1.5				
MAN-MADE FABRICS	2780.8	2663.3	2516.9	3011.5	10972.5	2985.2	2963.3	2952.0				
100% FILAMENT YARN FABRICS												
100% RAYON	6.3	6.7	6.0	7.1	26.1	7.1	6.4	5.9				
COMBINATIONS, CHIEFLY ACETATE	12.4	12.5	11.9	13.9	50.7	14.1	14.0	12.9				
100% NYLON	166.0	156.7	132.4	146.9	602.0	141.8	130.0	137.7				
100% POLYESTER	248.6	278.4	258.8	300.7	1086.5	284.5	301.2	293.8				
COMBINATIONS, CHIEFLY POLYESTER	23.9	22.4	24.0	21.2	91.5	21.5	20.0	21.9				
TEXTILE GLASS	115.2	97.9	85.5	93.2	391.8	106.6	92.8	99.1				
100% ACETATE	81.3	91.5	87.3	98.5	358.6	} 460.5	} 351.2	} 407.9				
OTHER	319.8	289.6	302.3	461.7	1373.4							
100% SPUN YARN FABRICS & BLENDS												
RAYON & ACETATE	96.2	90.1	84.8	100.3	351.4	174.1	176.8	142.0				
ACRYLIC-MODACRYLIC	3.9	4.3	5.2	4.7	18.1	2.9	3.7	3.2				
NYLON	5.2	6.1	5.2	6.3	22.8	8.6	12.5	8.9				
100% POLYESTER	58.3	51.8	53.3	54.8	218.2	78.3	77.1	73.0				
POLYESTER WITH COTTON	1117.4	1100.5	1015.0	1110.0	4342.9	1105.8	1097.1	1143.6				
POLYESTER WITH WOOL ^b	11.4	11.1	13.4	14.5	50.4	12.6	13.4	27.5				
POLYESTER WITH RAYON	147.7	140.4	141.2	167.0	596.3	177.2	190.9	195.0				
POLYESTER WITH OTHER FIBERS	16.6	7.5	14.5	15.4	54.0	15.3	15.6	22.5				
BLANKETING ^c	29.9	31.5	31.6	28.7	121.7	24.6	28.1	14.2				
ALL OTHER	12.3	10.1	9.0	12.4	43.8	4.6	3.6	4.5				
COMBINATIONS & MIXTURES ^d												
FILAMENT RAYON OR ACETATE WARP	14.2	15.0	18.4	28.8	76.4	31.4	33.0	30.5				
FILAMENT POLYESTER WARP	71.2	62.6	64.5	87.7	286.0	82.3	76.3	68.7				
OTHER FILAMENT WARP	8.4	4.7	2.2	3.1	18.4	3.3	2.0	2.3				
OTHER	121.8	88.6	75.3	97.3	383.0	129.3	140.0	151.0				
SPECIALTY FABRICS												
DRAPERY & BEDSPREAD	54.1	51.7	48.9	43.7	198.4	65.0	60.3	50.5				
SILK	2.0	1.3	1.3	1.5	6.1	1.3	1.6	1.8				
VELVETS	4.1	4.3	3.9	3.0	16.2	3.8	3.9	3.4				
UPHOLSTERY & TAPESTRY	29.9	23.0	18.2	26.0	97.1	} 28.9	} 30.8	} 30.2				
OTHER ^e	2.7	3.0	2.8	2.2	10.7							
TOTAL BROAD WOVEN FABRICS ABOVE	4085.3	3925.6	3556.5	4131.5	15698.9	4038.4	4008.0	3961.1				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Felts are not included.

b. Includes polyester blanketing for 3rd Q 1981.

c. Acrylic+modacrylic and polyester. Does not include polyester for 3rd Q 1981.

d. Includes filament & spun yarn fabrics.

e. 100% or chiefly man made fibers; chief fiber not specified. Also includes small poundages of tie, twisted paper yarn and girdle & swimwear fabrics.

made fiber manufactures, however, the U.S. had an **import balance** of 1.4 million pounds. This compares with an **export balance** of 230.9 million pounds in 1980. Thus, for all man-made fiber products, the U.S. recorded an **export balance** of 1,292.4 million pounds, 10% less than the 1,443.0 million pound **export balance** achieved

in 1980.

For cotton manufactures, the **import balance** more than doubled to 594.6 million pounds in 1981 from 287.8 million pounds in 1980, a jump of 306.8 million pounds. The 1981 **import balance** of wool manufactures totaled 101.3 million pounds, 28% more than the 1980

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION

MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT YARN FABRICS	973.5	955.7	908.2	1143.2	3980.6	1035.9	995.6	979.2				
100% FILAMENT ACETATE	81.3	91.5	87.3	98.5	358.6	a	a	a				
TAFETAS (PLAIN WEAVE)												
75 DENIER WARP	13.0	14.0	10.6	8.7	46.3	8.4	7.8	8.1				
150 DENIER WARP	9.4	7.9	9.9	12.7	39.8	9.5	11.2	13.6				
ALL OTHER	13.7	19.9	31.2	33.5	98.3	36.5	36.6	26.5				
SATINS	12.0	20.9	9.9	12.5	55.3	a	a	a				
ALL OTHER ^b	33.3	28.8	25.7	31.1	118.9	a	a	a				
FILAMENT COMB. CHIEFLY ACETATE	12.4	12.5	11.9	13.9	50.7	14.1	14.0	12.9				
100% FILAMENT RAYON	6.3	6.7	6.0	7.1	26.1	7.1	6.4	5.9				
TWILLS	4.4	5.1	4.9	6.1	20.5	6.4	5.7	4.5				
ALL OTHER ^c	1.9	1.6	1.1	1.0	5.6	0.7	0.7	1.4				
100% FILAMENT NYLON	166.0	156.7	132.4	146.9	602.0	141.8	130.0	137.7				
TAFETAS (PLAIN WEAVE)												
50 & 70 DENIER	51.0	59.4	53.0	59.0	222.4							
ALL OTHER	34.0	28.0	22.6	24.4	109.0	81.5	74.4	77.6				
TWILLS & SATINS	4.3	4.0	3.1	3.3	14.7							
MARQUEES, NINONS & OTHER SHEERS												
INDUSTRIAL TYPE	68.8	59.1	48.4	55.5	231.8	56.0	52.6	56.2				
ALL OTHER	7.9	6.2	5.5	4.7	24.1	4.3	3.0	3.9				
100% FILAMENT POLYESTER	248.6	278.4	258.8	300.7	1086.5	284.3	301.2	293.8				
TEXTILE YARN												
UP TO 4 OZ. SQ. YD.	43.6	51.6	52.9	52.5	200.6	56.9	60.0	64.7				
4 OZ. & OVER SQ. YD.	141.4	165.9	152.7	185.6	645.6	170.1	180.0	169.9				
NON-TEXTILE YARN												
INDUSTRIAL TYPE	17.4	14.3	12.5	13.1	57.3	13.5	10.0	9.9				
MARQUEES, NINONS & OTHER SHEERS	33.3	33.7	34.2	39.7	140.9	33.6	43.0	42.8				
TAFETAS	12.9	12.9	6.5	9.8	42.1	7.0	4.8	2.9				
ALL OTHER						3.2	3.4	3.6				
FILAMENT COMB. CHIEFLY POLYESTER	23.9	22.4	24.0	21.2	91.5	21.5	20.0	21.9				
GLASS FIBER	115.2	97.9	85.5	93.2	391.8	106.6	92.8	99.1				
INDUSTRIAL												
WOVEN ROVING & SCREENING	13.6	13.1	9.4	8.6	44.7	9.8	9.7	8.5				
ALL OTHER ^d	101.6	84.8	76.1	84.6	347.1	96.8	83.1	90.6				
OTHER 100% FILAMENT YARN ^e	319.8	289.6	302.3	461.7	1373.4	406.1	355.6	350.7				

See footnotes on opposite page.

import balance of 79.0 million pounds.

NON-CELLULOSIC SHIPMENTS FELL 10% IN JANUARY

January 1982 shipments of non-cellulosic fibers (except saran and spandex) totaled 523.8 million pounds, a decline of 10% from the 583.7 million pounds shipped in December 1981. As compared with January 1981 shipments of 665.6 million pounds, deliveries in January 1982 were off 21%.

Non-cellulosic yarn+monofilament deliveries (except saran and spandex) totaled 248.9 million pounds last month, 6% less than December 1981 shipments of 265.4 million pounds and 21% below year-ago levels. Deliveries of non-cellulosic staple+tow during January 1982 were 274.9 million pounds, a decrease of 14% from the 318.3 million pounds shipped in December 1981 and 21% below the January 1981 level of 349.4 million pounds.

JANUARY 1982 AND DECEMBER 1981 SHIPMENTS COMPARED

Following is a comparison of total January 1982 ship-

ments of non-cellulosic yarn+monofilaments (except saran and spandex) with December 1981 (million pounds), and the percentage change, respectively: nylon industrial yarn 26.2 & 27.8 & -6%; low denier industrial 2.6 & 2.6 & no change; carpet 40.3 & 42.9 & -6%; textile 27.9 & 30.8 & -9½%; polyester industrial 22.6 & 22.6 & no change; low denier industrial 1.9 & 1.5 & +27%; textile 75.4 & 85.3 & -12%; olefin 52.0 & 51.9 & marginal change and the total of these fibers 248.9 & 265.4 & -6%.

For non-cellulosic staple+tow+fiberfill, the corresponding data are: nylon 48.0 & 42.8 & +12%; acrylic+modacrylic 45.8 & 52.8 & -13%; polyester 173.3 & 212.8 & -19%; olefin+vinyon 7.8 & 9.9 & -21% and the total 274.9 & 318.3 & -14%.

JANUARY 1982 CELLULOSIC SHIPMENTS INCREASED 1½%

Shipments of acetate yarn+monofilaments and rayon staple+tow reversed their decline of recent months. January 1982 shipments of these fibers totaled 49.4 million pounds, 1½% more than the 48.6 million pounds

(Continued on page 34)

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION (Continued)
 MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% SPUN YARN FABRICS & BLENDS	1498.9	1453.4	1373.2	1574.1	5893.6	1604.0	1619.8	1634.4				
SPUN RAYON AND/OR ACETATE ^f	98.2	90.1	84.8	160.5	433.4	174.1	176.8	142.0				
SPUN ACRYLIC/MODACRYLIC ^f	3.9	4.3	5.2	4.7	18.1	2.9	3.7	3.2				
SPUN NYLON	5.2	6.1	5.2	6.5	22.8	8.6	12.5	8.9				
100% SPUN POLYESTER ^f	58.5	51.8	54.3	54.8	219.2	78.3	77.1	73.0				
PRINT CLOTH YARN	15.8	16.5	18.6	12.6	63.5	11.2	13.8	15.4				
ALL OTHER	42.5	35.3	34.7	42.2	154.7	67.1	63.3	57.6				
SPUN POLYESTER BLENDS WITH COTTON ^f	1117.4	1100.5	1015.0	1110.0	4342.9	1105.8	1097.1	1145.6				
BATISTE	74.2	66.5	65.6	74.8	281.1	77.2	67.0	66.9				
BED SHEETING	415.9	426.6	373.7	402.9	1619.1	404.3	398.1	418.2				
BROADCLOTH	120.4	99.0	89.6	93.3	402.3	80.4	62.4	67.7				
CORDUROY	19.0	22.6	21.2	24.6	87.4	17.9	18.7	8				
VOILES						8.9	9.5	11.0				
OXFORDS												
SHIRTING	6.3	6.6	6.3	12.2	31.4	12.3	11.4	17.3				
OTHER (INCL. HOPSACKS)	12.5	12.0	14.2	15.4	54.1	13.2	13.1	16.4				
POPLINS	55.7	68.4	60.9	60.3	245.3	50.2	73.3	85.5				
PRINT CLOTH YARN												
PLAIN PRINT CLOTH ^h	156.2	145.2	152.8	164.2	594.3	187.1	202.9	223.1				
ALL OTHER	12.1	15.5			52.7							
SATENS	24.1	22.5	22.0	23.9	92.5	15.8	6.4	4.7				
TWILLS INCL. GABARDINE												
HEAVIER THAN 2 SQ YD/LB	30.6	28.6	31.8	30.2	121.2	29.9	38.5	33.7				
2 SQ YD/LB & LIGHTER	62.1	56.8	48.9	67.0	234.8	68.1	61.7	60.7				
YARN DYED ^j	77.6	72.9	68.1	66.3	284.9	62.2	62.4	55.4				
ALL OTHER ^j	50.7	57.3	59.9	74.9	242.8	69.3	71.7	82.4				
SPUN POLYESTER BLENDS WITH WOOL ^k	11.4	11.1	14.4	14.5	50.4	12.6	13.4	27.5				
SPUN POLYESTER BLENDS WITH RAYON ^f	147.7	140.4	141.2	167.0	596.3	177.2	190.9	195.0				
PLAIN PRINT CLOTH	89.8	89.8	98.0	100.4	368.0	115.8	118.9	114.6				
OTHER PRINT CLOTH	18.8	17.4			57.1							
ALL OTHER	39.1	33.2	53.2	66.6	171.2	61.4	72.0	80.4				
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^f	16.6	7.5	14.5	15.4	54.0	15.3	15.6	22.5				
SPUN POLYESTER BLANKETING	11.8	11.7	14.2	13.0	50.7	10.2	12.2	1				
SPUN ACRYLIC/MODACRYLIC BLANKETING	18.1	19.8	17.4	15.7	71.0	14.4	15.9	14.2				
ALL OTHER 100% SPUN YARN FABRICS & BLENDS	12.3	10.1	9.0	12.4	45.8	4.6	4.6	4.5				
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARN FABRICS	215.6	170.9	160.4	216.9	763.8	246.3	251.3	252.5				
FILAMENT RAYON OR ACETATE WARP	14.2	15.0	18.4	28.8	76.4	31.4	33.0	30.5				
FILAMENT POLYESTER WARP	71.2	62.6	64.5	87.7	286.0	82.3	76.3	68.7				
ALL OTHER FILAMENT WARP	8.4	4.7	2.2	3.1	18.4	3.3	2.0	2.3				
SPUN WARP WITH FILAMENT FILLING	101.1	68.6			313.2							
COMBINATION FILAMENT & SPUN WARP OR FILLING	20.7	20.0	75.3	97.3	69.8	129.3	140.0	151.0				
OTHER SPECIALTY FABRICS	92.8	83.3	75.1	77.3	328.5	99.0	96.6	85.9				
DRAPERY & BEDSPREAD ^m	54.1	51.7	48.9	43.7	198.4	65.0	60.3	50.5				
JACQUARD WOVEN	2.2	1.5	1.5	1.3	6.5	2.8	3.3	2.7				
OTHER WOVEN	51.9	50.2	47.4	42.4	191.9	62.2	57.0	47.8				
SILK	2.0	1.3	1.3	1.5	6.1	1.3	1.6	1.8				
VELVETS, PULSHES & OTHER PILE	4.1	4.3	3.9	3.9	16.2	3.8	3.9	3.4				
UPHOLSTERY & TAPESTRY	29.9	23.0	18.2	26.0	97.1							
ALL OTHER ⁿ	2.7	3.0	2.8	2.2	10.7	28.9	30.8	30.2				
TOTAL MAN-MADE FIBER FABRICS ABOVE	2780.8	2663.3	2516.9	3011.5	10972.5	4015.1	4008.0	3741.1				

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

- a. Included in Other 100% Filament Yarn below.
 b. Includes marquisettes, ninons, sheers, industrials and twills.
 c. Includes marquisettes, ninons, sheers, industrials, taffetas and satins.
 d. Includes household fabrics (marquisettes, drapery, upholstery, etc.).
 e. Includes filament combinations, chiefly rayon, and saran & olefin.
 Also includes 100% filament acetate (except taffetas) for 1981.
 f. Except blanketing.
 g. Included in All Other Spun Polyester Blends With Cotton below.

- h. Includes carded broadcloth.
 i. Includes overdyed fabrics.
 j. Includes seersucker and piece dyed pattern fabrics. Also includes corduroy for 3rd Q 1981.
 k. Does not include blanketing, except for polyester blanketing in 3rd Q 1981.
 l. Included in Spun Polyester Blends With Wool above for 3rd Q 1981.
 m. Except glass.
 n. Includes tie, twisted paper yarn and girdle & swimwear fabrics.

1980 MAN-MADE FIBER BROAD WOVEN GOODS CONVERSION FACTORS

TYPE OF FABRIC	LINEAR YARDS/SQUARE YARDS					SQUARE YARDS/LINEAR YARDS				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
100% FILAMENT YARN FABRICS	0.646	0.640	0.643	0.616	0.635	1.549	1.564	1.555	1.622	1.574
100% FILAMENT ACETATE	0.756	0.751	0.750	0.755	0.753	1.322	1.332	1.333	1.324	1.328
TAFFETAS (PLAIN WEAVE)										
75 DENIER WARP	0.792	0.793	0.774	0.816	0.793	1.262	1.261	1.290	1.225	1.262
150 DENIER WARP	0.710	0.709	0.778	0.654	0.709	1.409	1.411	1.286	1.530	1.411
ALL OTHER	0.752	0.750	0.747	0.773	0.756	1.330	1.318	1.357	1.293	1.324
SATINS	0.700	0.694	0.657	0.720	0.694	1.429	1.441	1.523	1.389	1.440
ALL OTHER ^a	0.778	0.778	0.782	0.775	0.778	1.286	1.286	1.279	1.290	1.285
FILAMENT COMB. CHIEFLY ACETATE	0.718	0.720	0.706	0.719	0.716	1.393	1.389	1.417	1.390	1.397
100% FILAMENT RAYON	0.857	0.851	0.867	0.887	0.866	1.167	1.175	1.154	1.127	1.155
TWILLS	0.909	0.882	0.898	0.918	0.902	1.100	1.133	1.114	1.089	1.108
ALL OTHER ^b	0.747	0.750	0.727	0.700	0.732	1.357	1.333	1.375	1.429	1.366
100% FILAMENT NYLON	0.689	0.692	0.695	0.689	0.691	1.451	1.444	1.439	1.452	1.447
TAFFETAS (PLAIN WEAVE)										
50 & 70 DENIER	0.725	0.724	0.725	0.715	0.722	1.378	1.381	1.380	1.398	1.385
ALL OTHER	0.700	0.704	0.712	0.693	0.702	1.429	1.421	1.404	1.444	1.425
TWILLS & SATINS	0.698	0.700	0.710	0.697	0.701	1.433	1.429	1.409	1.435	1.427
MARQUISSETTES, NINONS & OTHER SHEERS										
INDUSTRIAL TYPE	0.654	0.655	0.649	0.661	0.655	1.529	1.527	1.541	1.512	1.527
ALL OTHER	0.709	0.694	0.746	0.660	0.701	1.411	1.442	1.359	1.516	1.426
100% FILAMENT POLYESTER	0.611	0.604	0.606	0.605	0.606	1.638	1.656	1.649	1.659	1.651
TEXTILE YARN										
1 P TO 4 OZ/SQ YD	0.564	0.564	0.561	0.566	0.564	1.772	1.773	1.781	1.768	1.774
4 OZ & OVER/SQ YD	0.535	0.538	0.540	0.531	0.536	1.870	1.860	1.851	1.864	1.867
NONTEXTILE YARN										
INDUSTRIAL TYPE	0.661	0.664	0.664	0.664	0.663	1.513	1.505	1.506	1.506	1.508
MARQUISSETTES, NINONS & OTHER SHEERS	0.955	0.955	0.959	0.947	0.953	1.047	1.050	1.043	1.056	1.049
TAFFETAS	0.645	0.636	0.554	0.694	0.649	1.554	1.573	1.806	1.441	1.565
ALL OTHER										
FILAMENT COMB. CHIEFLY POLYESTER	0.519	0.522	0.517	0.519	0.519	1.927	1.915	1.945	1.927	1.926
GLASS FIBER	0.878	0.871	0.828	0.936	0.879	1.139	1.148	1.208	1.069	1.138
INDUSTRIAL										
WOVEN ROVING & SCREENING	0.551	0.550	0.585	0.523	0.553	1.813	1.819	1.709	1.911	1.810
ALL OTHER ^c	0.921	0.921	0.858	0.978	0.921	1.085	1.086	1.165	1.023	1.086
OTHER 100% FILAMENT YARN ^d	0.541	0.532	0.572	0.505	0.534	1.847	1.878	1.748	1.979	1.872

See footnotes on opposite page.

(Continued from page 32)

shipped in December 1981 but 20% below the 61.8 million pounds shipped in January 1981.

Shipments of acetate yarn last month totaled 19.1 million pounds, 19% above the 16.0 million pounds delivered in December 1981 but 8½% less than the 20.9 million pounds shipped during the corresponding month last year. Rayon staple+tow deliveries during January 1982 totaled 30.3 million pounds, 7% less than the 32.6 million pounds shipped the previous month and 26% less than January 1981 shipments of 40.9 million pounds.

SANS STATISTICS

WORDS OUT OF CONTEXT

A column appearing in *The Morning News* of Wilmington, DE on February 3rd, 1982 has come to our attention. The column mentioned companies promoting their products on the Mike Douglas show and included a fashion show as an example:

"Another Douglas program was highlighted by a fashion show. As it turns out, all the fashions were made by Celanese, and the bill for the entire segment was footed by DuPont, the parent company of Celanese."

Undoubtedly the columnist should have placed a local phone call to verify his facts. DuPont would be the last to sponsor a fashion show by Celanese, its competitor.

1980 MAN-MADE FIBER BROAD WOVEN GOODS CONVERSION FACTORS (Continued)

TYPE OF FABRIC	LINEAR YARDS/SQUARE YARDS					SQUARE YARDS/LINEAR YARDS				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
100% SPUN YARN FABRICS & BLENDS	0.628	0.626	0.631	0.643	0.632	1.591	1.598	1.584	1.555	1.581
SPUN RAYON AND/OR ACETATE ^c	0.846	0.869	0.862	0.929	0.885	1.182	1.151	1.160	1.077	1.150
SPUN ACRYLIC-MODACRYLIC ^e	0.615	0.628	0.596	0.681	0.630	1.625	1.593	1.677	1.469	1.588
SPUN NYLON	0.615	0.625	0.635	0.603	0.618	1.625	1.605	1.576	1.658	1.617
100% SPUN POLYESTER ^e	0.549	0.556	0.550	0.551	0.551	1.822	1.799	1.819	1.815	1.814
PRINT CLOTH YARN	0.646	0.648	0.608	0.698	0.646	1.549	1.542	1.646	1.452	1.549
ALL OTHER	0.513	0.513	0.519	0.507	0.513	1.956	1.950	1.928	1.972	1.951
SPUN POLYESTER BLENDS WITH COTTON ^e	0.597	0.594	0.599	0.597	0.596	1.676	1.685	1.671	1.675	1.677
BATISTE	0.710	0.710	0.727	0.697	0.710	1.408	1.409	1.375	1.436	1.408
BED SHEETING	0.453	0.452	0.451	0.450	0.452	2.210	2.210	2.215	2.224	2.215
BROADCLOTH	0.674	0.675	0.673	0.676	0.675	1.483	1.482	1.486	1.479	1.482
CORDUROY	}	0.768	0.770	0.731	0.797	}	1.301	1.299	1.368	1.255
VOILES										
OXFORDS	}	0.714	0.712	0.702	0.697	}	1.400	1.404	1.313	1.435
SHIRTING										
OTHER (INCL. HOSIACKS)	0.720	0.717	0.718	0.714	0.717	1.489	1.495	1.492	1.480	1.494
POPLINS	0.677	0.677	0.675	0.675	0.676	1.477	1.477	1.482	1.482	1.479
PRINT CLOTH YARN	}	0.673	0.673	}	0.673	}	1.486	1.486	}	1.485
PLAIN PRINT CLOTH ^f										
ALL OTHER	0.744	0.742	0.677	0.680	0.740	1.344	1.348	1.478	1.470	1.351
SATEENS	0.593	0.591	0.573	0.590	0.587	1.685	1.692	1.746	1.695	1.703
TWILS, INCL. GABARDINE ^f	}	0.654	0.654	0.654	0.652	}	1.540	1.529	1.529	1.533
HEAVIER THAN 2 SQ YD LB										
2 SQ YD LB & LIGHTER	0.668	0.669	0.697	0.649	0.669	1.496	1.495	1.444	1.540	1.495
YARN DYED ^g	0.693	0.690	0.692	0.689	0.691	1.442	1.449	1.446	1.451	1.447
ALL OTHER ^h	0.692	0.693	0.689	0.693	0.692	1.444	1.443	1.450	1.443	1.445
SPUN POLYESTER BLENDS WITH WOOL ^e	0.605	0.604	0.597	0.607	0.603	1.652	1.657	1.675	1.648	1.658
SPUN POLYESTER BLENDS WITH RAYON ^e	0.760	0.759	0.771	0.707	0.747	1.315	1.318	1.297	1.415	1.338
PLAIN PRINT CLOTH	0.742	0.742	0.742	0.741	0.742	1.348	1.348	1.348	1.349	1.348
OTHER PRINT CLOTH	0.777	0.776	0.820	0.655	0.776	1.288	1.289	1.220	1.528	1.289
ALL OTHER	0.795	0.795	0.820	0.655	0.751	1.257	1.258	1.220	1.528	1.342
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^e	0.759	0.760	0.759	0.766	0.761	1.317	1.316	1.318	1.305	1.314
SPUN POLYESTER BLANKETING	0.551	0.547	0.528	0.577	0.550	1.815	1.828	1.893	1.743	1.817
SPUN ACRYLIC-MODACRYLIC BLANKETING	0.536	0.540	0.534	0.548	0.539	1.860	1.850	1.871	1.826	1.854
ALL OTHER 100% SPUN YARN FABRICS & BLENDS	0.675	0.673	0.667	0.685	0.676	1.482	1.485	1.500	1.459	1.480
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARN FABRICS	0.566	0.576	0.585	0.577	0.575	1.767	1.737	1.710	1.732	1.738
FILAMENT RAYON OR ACETATE WARP	0.704	0.713	0.663	0.736	0.707	1.420	1.402	1.508	1.358	1.412
FILAMENT POLYESTER WARP	0.587	0.586	0.605	0.574	0.587	1.703	1.706	1.654	1.744	1.704
ALL OTHER FILAMENT WARP	0.571	0.574	0.545	0.581	0.571	1.750	1.741	1.833	1.722	1.752
SPUN WARP WITH FILAMENT FILLING	0.510	0.510	}	0.550	0.512	}	1.959	1.960	}	1.954
COMBINATION FILAMENT & SPUN WARP OR FILLING	0.667	0.665								
OTHER SPECIALTY FABRICS	0.744	0.745	0.775	0.714	0.744	1.345	1.341	1.290	1.400	1.344
DRAPEY & BEDSPREAD ⁱ	0.732	0.733	0.757	0.709	0.733	1.366	1.364	1.322	1.410	1.364
JACQUARD WOVEN	0.727	0.733	0.733	0.769	0.738	1.375	1.364	1.364	1.300	1.354
OTHER WOVEN	0.732	0.733	0.757	0.708	0.733	1.366	1.364	1.320	1.413	1.364
SLK	0.950	0.846	0.923	0.933	0.918	1.053	1.182	1.093	1.071	1.089
VELVETS, PUSHERS & OTHER PILE	0.902	0.894	0.872	0.872	0.885	1.108	1.132	1.147	1.147	1.133
UPHOLSTERY & TAPESTRY	0.709	0.713	0.769	0.669	0.711	1.410	1.402	1.300	1.494	1.407
ALL OTHER ^j	0.963	0.967	0.929	0.909	0.944	1.038	1.034	1.077	1.100	1.059
TOTAL MAN-MADE FIBER FABRICS ABOVE	0.689	0.688	0.687	0.680	0.686	1.451	1.453	1.455	1.471	1.457

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

- a. Includes marquisettes, nans, sheers, industrials and towels.
b. Includes marquisettes, nans, sheers, industrials, taffers and satins.
c. Includes household fabrics (marquisettes, drapery, upholstery, etc.).
d. Includes filament combinations, chiefly rayon, and rayon-cotton blends.
e. Except blanketing.

- f. Includes carded broadcloth.
g. Includes overdyed fabrics.
h. Includes seersucker and piece dyed pattern fabrics.
i. Except glass.
j. Includes tie, twisted paper yarn and girdle & swimwear fabrics.

**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN**
THOUSAND POUNDS

ITEM	1981												YEAR		
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980	1979
RAYON+ACETATE YARN, MONOFIL & STRIPS															
CANADA	518	125	8	1	12	5	0	15	4	14	35	87	624	793	1854
MEXICO	161	79	164	41	191	166	81	246	121	78	68	122	1517	1558	1510
BELGIUM	0	50	25	0	76	0	24	0	0	0	16	0	196	0	47
WEST GERMANY	242	290	555	200	649	179	115	457	506	435	205	229	3752	1114	4256
GREECE	0	0	0	0	49	0	0	0	0	82	40	0	161	0	11
NETHERLANDS	246	503	434	293	262	194	572	540	284	197	198	90	5882	2051	436
SPAIN	142	0	0	0	41	0	40	0	0	0	0	41	264	99	78
UNITED KINGDOM	1	10	0	0	41	0	90	74	14	0	0	0	245	1025	4971
JAPAN	64	0	0	0	34	46	0	28	14	51	25	0	251	658	504
SOUTH KOREA	1	0	0	40	40	0	0	0	60	54	0	0	175	120	1019
ALL OTHER COUNTRIES ^a	19	4	0	0	0	20	5	38	0	24	9	45	162	284	616
TOTAL R+A YARN	1184	1151	1084	581	1374	600	726	1087	803	921	596	612	10719	8302	13271
RAYON+ACETATE STAPLE+TOW															
CANADA	469	474	446	451	421	492	414	463	407	401	295	204	4824	2952	1676
AUSTRIA	741	114	160	403	708	250	463	468	526	400	651	64	4703	1345	5544
FRANCE	18	83	49	45	0	45	0	0	0	194	0	0	422	126	907
WEST GERMANY	0	0	85	0	0	0	0	15	2	45	0	87	260	215	384
ITALY	0	12	0	0	46	16	105	115	0	292	0	0	576	0	17
SWITZERLAND	532	254	184	0	187	227	227	298	224	184	441	281	2769	2922	5588
UNITED KINGDOM	220	76	7	157	204	245	549	75	122	249	108	49	1886	1611	1884
JAPAN	90	147	74	118	50	88	105	87	60	220	99	78	1225	1085	774
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0	96	47	0	23	158	52	257
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449	1437	1920	1524	776	16763	10306	16529
NON-CELLULOSIC YARN, MONOFIL & STRIPS															
CANADA	50	98	4	570	415	280	480	263	55	45	207	121	2506	2916	481
MEXICO	14	20	12	15	44	9	4	99	2	8	49	49	265	40	5
AUSTRIA	0	0	0	0	64	0	41	10	0	11	0	11	157	1	0
BELGIUM	0	0	0	0	0	1	0	5	47	68	0	0	151	54	215
FRANCE	94	150	205	210	166	109	235	125	101	214	187	112	1806	770	1478
WEST GERMANY	256	482	275	501	426	553	520	508	352	470	557	206	4606	4058	2959
ITALY	52	152	45	0	108	79	0	433	227	155	47	41	1229	258	495
NETHERLANDS	0	1	9	0	49	28	0	42	0	4	48	1	171	150	180
SPAIN	61	0	0	0	0	0	0	179	0	99	0	0	559	62	372
SWITZERLAND	1	3	8	0	4	4	50	8	50	1	28	1	150	21	50
UNITED KINGDOM	57	114	57	4	5	1	4	15	14	48	27	50	481	658	749
JAPAN	500	671	357	776	662	745	774	601	500	670	691	262	6866	10992	11940
SOUTH KOREA	5	50	4	5	45	2	1	3	5	2	1	1	105	15	0
ALL OTHER COUNTRIES ^c	2	5	6	0	50	6	2	0	31	11	42	61	214	645	1400
TOTAL N.C. YARN	892	1610	949	2087	2035	1614	1818	2183	1205	1854	1748	939	18934	19614	20004
NON-CELLULOSIC STAPLE+TOW															
CANADA	428	450	449	551	714	425	1250	649	696	617	454	285	6647	2460	1071
MEXICO	190	28	97	510	693	217	141	584	264	485	781	42	5850	51	19
BELGIUM	0	140	0	152	70	2	5	46	41	115	203	128	872	4	76
FRANCE	44	707	198	508	533	254	528	168	472	406	579	50	4345	49	79
WEST GERMANY	541	1965	1625	2233	1644	1345	2380	2453	742	1601	846	751	18120	10245	9872
IRELAND	0	56	0	0	0	0	49	0	39	87	0	49	260	57	0
ITALY	7	815	616	423	717	164	1426	649	1202	72	1193	50	7552	1256	2800
NETHERLANDS	0	49	44	80	45	15	15	98	37	24	15	44	446	20	2
POLAND	44	58	0	0	89	0	0	3	0	0	26	0	200	65	45
ROMANIA	0	0	152	84	28	0	24	0	71	287	0	58	684	559	1680
UNITED KINGDOM	208	508	520	174	264	818	715	607	406	411	465	282	5075	2293	3688
EGYPT	0	0	0	0	0	0	0	0	333	0	0	0	333	0	0
JAPAN	828	555	467	493	543	478	434	288	202	356	264	328	4716	6015	9000
TAIWAN	524	745	588	875	585	866	198	852	1291	653	258	130	7563	12440	10614
ALL OTHER COUNTRIES ^d	0	15	0	16	1	54	24	72	26	11	79	2	297	118	469
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862	2195	60517	35568	39319

Other countries supplying 1981 poundages are:

a. Austria 63, France 44, Italy 4, Sweden 2, Taiwan 28 & Yugoslavia 21.

b. Belgium 96, Mexico 1, Netherlands 60 & Venezuela 1.

c. Australia 1, Costa Rica 60, Denmark 81, Hong Kong 2, Iceland 1, Ireland 35,

Israel 10, Portugal 11, Sweden 10 & Taiwan 3.

d. Austria 44, Brazil 20, Costa Rica 40, Denmark 3, Hong Kong 16, Israel 31, South Korea 31, Portugal 16, South Africa 23, Spain 3 & Switzerland 70.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1-1-78	1981												YEAR		
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980	1979
RAYON*ACETATE																
YARN - SINGLES																
TEXTURED	5100106 & 0206	1	10	0	242	4	0	0	0	0	0	0	45	600	912	2095
OTHER	5100106 & 0206 ^a	1182	1159	1084	559	1370	680	712	1072	805	920	587	565	10573	7580	10005
MONOFILAMENTS	5090510 & 0610	1	2	0	0	0	0	0	0	0	1	0		4	0	
STRIPS \$1 LB & UNDER	5092000 ^a	0	0	0	0	0	0	5	15	0	0	0	0	55	10	81
SUBTOTAL ABOVE		1184	1151	1084	561	1374	680	726	1087	805	921	596	612	10719	8302	13271
STAPLE	5094520 & 4525	1627	1000	927	897	1442	990	1511	1517	1358	1686	1558	747	14626	7998	13949
GROUPTED FILAMENTS	5093010 & 5110	249	155	64	185	252	265	451	152	79	254	180	49	2157	2508	2580
SUBTOTAL ABOVE		1866	1159	991	1072	1674	1255	1662	1449	1437	1920	1524	776	16763	10306	16529
WASTE, ADVANCED & NOT ADVANCED	5090615 & 7510	47	7	47	0	45	40	65	40	40	58	110	58	519	549	805
NON-CELLULOSIC FIBERS																
YARN - SINGLES																
TEXTURED - NYLON	5100109 & 0209	107	217	215	586	507	475	471	150	170	445	195	286	5827	5154	953
POLYESTER	5100110 & 0210	27	7	23	15	79	89	1	294	08	16	65	66	768	557	1085
OTHER	5100114 & 0214	17	56	8	17	49	25	85	21	8	149	45	29	492	195	155
OTHER - NYLON	5100149 & 0249	204	525	127	542	687	454	517	116	458	284	208	74	4076	5572	6105
POLYESTER	5100150 & 0250	111	411	299	599	682	691	295	935	190	618	594	271	5441	6672	7579
OTHER	5100176 & 0276 ^b	170	185	115	188	164	56	182	81	198	111	89	150	1595	1417	1346
MONOFILAMENTS	5090200 & 0540 ^c	145	200	149	521	258	220	458	265	161	220	191	29	2615	4058	2565
STRIPS OVER \$1 LB	5092100 & 2500 ^a	21	11	16	21	9	15	11	13	51	15	24	54	220	229	420
SUBTOTAL ABOVE		892	1610	949	2087	2035	1614	1818	2183	1205	1854	1748	939	18954	19614	20004
STAPLE - NYLON	5094558	525	2086	1698	2545	2455	1574	4655	4258	2062	564	1729	517	25576	16998	25600
POLYESTER	5094562	152	111	506	661	867	565	528	576	840	1187	1066	252	6649	1544	4687
ACRYLIC	5094565	1069	1594	907	1201	1005	565	746	695	680	1250	560	885	10465	15296	15047
OTHER	5094569	5	0	504	1	5	71	474	79	125	60	10		1154	144	57
GROUPTED FILAMENTS	5094555	469	961	675	1088	852	1281	456	1285	1066	1069	610	450	10666	14574	15766
NYLON	5095040 & 5150	08	50	08	147	155	196	500	25	18	475	800	187	2175	1022	710
POLYESTER	5095040 & 5150	0	42	0	0	44	90	18	40		45	22	47	556	129	44
ACRYLIC	5095050 & 5150	184	255	178	291	195	512	472	250	175	475	477	507	3454	2608	2910
OTHER	5095065 & 5165	65	116	502	166	156	186	542	77	546	155	74	110	2082	753	1525
SUBTOTAL ABOVE		2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862	2195	60517	35568	39519
WASTE, NOT ADVANCED - NYLON	5094625	1508	1587	2822	1715	2154	1607	2250	2360	2417	2114	2558	2222	25255	11658	12845
POLYESTER	5094630	1071	1810	1547	1085	1475	1421	1458	1499	1282	2508	1491	1756	18111	8946	8343
ACRYLIC	5094605	289	258	200	256	479	299	87	514	5	50	624	185	2872	2558	2595
OTHER	5094600	52	205	265	528	127	551	196	540	15	568	546	420	2909	965	1568
NOIS & GARNETTE FIBERS	5094600 & 7000 ^a	0	0	0	0	0	0	20	28	0	28	0		85	4	5
OTHER WASTE, ADVANCED	5097525 & 7555	119	65	4	35	2	6	25	58	51	117	74	5	546	625	984
TOTAL MAN-MADE ABOVE		9602	13643	12352	15135	14947	11679	15464	15717	12935	15041	13639	9146	157280	95675	111052
OTHER MAN-MADE FIBER TOPS, YARN & THREAD																
YARN - PLYED																
TEXTURED - CELLULOSE	5101100	0		24	0	0	0	0	0	0	1	0		25	0	2
NON-CELLULOSE	5101015 ^d & 1105 ^e	268	124	215	415	364	265	512	335	145	459	209	180	4405	1578	2190
OTHER - CELLULOSE	5101050 & 1155 ^f	16		0	0	0	0	0	1	0	1	5		21	97	25
NON-CELLULOSE	5101050 & 1075 ^g	20	27	26	44	20	4	125	14	15	16	45	19	575	389	400
SPUN YARN - CELLULOSE	5104005 & 4055 ^h	10	25	24	52	57	24	95	140	58	75	67	64	659	508	585
OTHER	5104015 & 4052 ⁱ	1762	1454	1794	1740	2164	1512	1514	1258	1982	1515	962		18599	19387	20300
OTHER YARNS - NES INCL CHENILLE	5104020 & 8000	352	109	261	415	609	455	561	456	474	545	324	178	4117	2520	5748
HANDWORK YARNS & SEWING THREAD	5104000 & 0140	247	250	198	190	262	292	226	208	195	416	272	171	2797	2200	2561
SILVER TOPS & ROVING	5094000	588	475	522	262	175	245	870	595	115	566	127	186	5622	2708	6455
TEXTILE GLASS FIBER	5092000 & 2000 ^j	1156	441	1047	551	645	1485	1575	5454	2410	2127	2201	1142	18212	7550	10554
GRAND TOTAL ABOVE		15821	16526	16251	16702	19219	15739	20098	22104	17501	20729	18292	12048	209010	152072	157575

SOURCE: U.S. Census Bureau

NES - Not elsewhere specified

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 510.0510 & 0610.

b. Also includes 510.0530, 0550, 0650 & 0650.

c. Also includes 509.0540, 0565, 0500, 0630, 0640 & 0665.

d. There may be some acetate yarn in these data, but the Census

figures do not permit a segregation.

e. Also includes 510.1110 & 1114.

f. Also includes 510.2010 & 2110.

g. Also includes 510.1150, 1155, 1170, 2050, 2050, 2130 & 2150.

h. Also includes 510.5005 & 5030.

i. Also includes 510.4040, 4047, 4050, 5015, 5046, 5047, 5049 & 5051.

j. Chiefly roving. Also includes 509.9800 & 9900.

U.S. EXPORTS OF MAN-MADE FIBERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1980					1981				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON*ACETATE											
FILAMENT YARN ^a											
TEXTURE ^b	510.0000	521	254	1500	521	2858	93	75	72	117	357
OTHER ^b	510.0020	6451	6050	5118	6551	24150	8191	5829	4280	5608	24014
MONOFILAMENTS	800.0110	80	52	0	19	149	47	80	0	4	90
STRIPS	800.2210	41	1	23	1	66	66	79	95	100	346
SUBTOTAL ABOVE		6882	6297	6659	7092	26950	8597	6015	4462	5855	24707
STAPLE-TOW RAYON	800.4222	10581	17578	18765	12095	69817	12222	14254	14509	14541	55150
STAPLE ACETATE	800.4210	2549	1940	954	812	6255	5092	2046	608	658	7004
SUBTOTAL ABOVE		19130	19318	19717	12907	71072	15914	16280	14977	14989	62160
WASTE ADVANCED & NOT ADVAN. TD	800.7000	1842	1773	1720	749	6000	693	795	410	805	2790
NON CELLULOSIC FIBERS											
FILAMENT YARN ^a											
NYLON TEXTURE ^b	510.0008 & 0009	10848	10303	15008	17014	52773	21787	17478	17050	12079	68300
HIGH TENACITY ^c	510.0027	15761	14502	15848	15093	57803	18158	17544	11095	10025	57400
OTHER	510.0020	5848	6514	6218	6587	24967	5401	4525	6280	5458	19424
POLYESTER TEXTURE ^b	510.0010	22506	20472	30880	31954	114910	48758	58681	65407	65400	230152
HIGH TENACITY ^c	510.0002	7905	6765	8885	4561	25202	4870	5304	6299	6007	25400
OTHER ^d	510.0004	1105	1880	2520	2175	7493	2580	3065	5117	5190	11750
OTHER TEXTURE ^b	510.0014	4080	5077	5500	4245	19005	4174	3082	2546	2149	11751
GLIPS	510.0040	480	706	683	652	2520	741	519	838	505	2005
OTHER	510.0044	1300	1574	1260	1005	5265	1560	1452	1184	1040	5241
MONOFILAMENTS ALL DENIERS											
NYLON	800.0120	4504	5002	3647	2294	15407	2587	1955	1879	1585	7780
POLYESTER ^e	800.0140	4500	6050	5678	4757	18985	2816	1767	1562	1218	7104
OTHER	800.0170	1762	3255	2114	1556	8685	1289	1514	1614	2565	6500
STRIPS	800.2210 & 2270	715	1428	508	780	3427	1560	1540	740	920	4555
SUBTOTAL ABOVE		78327	92500	92560	92136	355325	115753	118054	119715	109922	465424
STAPLE NYLON	800.4240	8205	5805	7093	7545	29300	9445	7040	5848	5245	27550
POLYESTER	800.4242	84580	117941	117905	127004	447200	108803	138242	144558	140888	522081
ACRYLIC	800.4245	40146	40799	54986	40251	145172	41711	40157	49084	45720	150001
OLEFIN	800.4246	800	861	523	1025	3275	604	451	270	393	1758
OTHER	800.4247	4045	5582	4278	4248	17751	5015	5800	4647	5581	18045
GROUPED FILAMENTS											
NYLON	800.5220	1720	2714	1005	1857	7282	1724	763	740	1328	4561
POLYESTER ^d	800.5240	10041	19090	10125	9124	54880	9508	6700	3802	6761	26777
ACRYLIC	800.5250 & 5255	8704	7541	6487	4795	27517	10076	8460	7144	7075	32055
SUBTOTAL ABOVE		163759	190923	181962	195829	732475	187054	207469	205089	191090	790682
WASTE ADVANCED & NOT ADVANCED											
NYLON	800.7020	5020	4505	4018	2519	14520	5470	4141	3502	3025	13948
POLYESTER	800.7030	22154	17087	10260	11072	61155	11000	15080	12419	17000	54117
ACRYLIC	800.7040	511	511	499	861	2552	1874	1541	575	817	4795
OTHER	800.7000	11802	11490	7522	7515	38395	8718	9105	8717	7817	34415
TOTAL MAN-MADE FIBER ABOVE		308067	344468	324693	331080	1308308	353439	376552	369670	351396	1451037
TEXTILE GLASS FIBER	800.2700 & 0700	15104	15511	11719	12015	54367	10180	8611	8555	11500	38044
GRAND TOTAL ABOVE		323231	359979	336412	343093	1362715	363619	385143	378225	362986	1489971

SOURCE: U.S. Census Bureau Report

- a. Includes thrown, singles and plied yarn
 b. Includes an undetermined amount of rayon tire cord and cord fabric
 c. Includes an undetermined amount of non-cellulosic tire cord and

cord fabric

d. Includes zero twist yarns

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1981 REVISED												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1981	1980
MAN-MADE FIBER DATA^c														
<u>YARN+MONOFILAMENTS^d</u>														
TOTAL SHIPMENTS^b														
ACETATE	20.9	21.6	21.5	27.1	26.4	25.2	24.6	19.9	20.8	19.5	17.6	16.0	261.1	301.9
NYLON ^e INDUSTRIAL ^f	54.5	54.4	57.2	55.0	52.4	54.5	50.0	55.7	45.0	51.8	53.4	27.8	602.0	600.0
LOW DENSITY INDUSTRIAL ^g	5.0	5.0	5.8	2.8	2.4	4.5	2.9	2.0	4.5	2.7	2.7	2.0	45.1	45.8
CARPET	67.1	65.8	65.4	75.4	65.4	61.5	56.8	52.0	48.1	40.7	59.4	42.0	677.0	756.0
TEXTILE	53.7	50.0	58.4	57.5	50.1	57.5	51.7	54.8	55.8	53.0	52.5	50.8	618.0	637.0
POLYESTER INDUSTRIAL ^f	25.0	24.8	26.8	28.5	24.2	25.0	20.4	26.8	25.7	20.0	25.7	22.0	507.1	294.4
LOW DENSITY INDUSTRIAL ^g	2.1	2.1	2.5	2.0	2.7	2.5	1.9	2.8	2.4	2.4	2.2	1.5	27.0	29.4
TEXTILE	94.8	90.0	111.5	125.0	100.3	108.0	102.1	107.5	105.9	98.4	91.6	85.5	1229.5	1172.8
OLEFIN ^h	56.0	55.8	57.4	55.5	56.8	52.0	54.5	54.2	51.0	51.1	52.0	51.0	648.1	652.4
TOTAL NON-CELLULOSIC ABOVE ⁱ	316.2	315.5	342.7	359.9	326.1	324.3	306.1	316.5	306.2	286.7	279.5	265.4	3745.1	3815.8
<u>STAPLE+TOW+FIBERFILL^j</u>														
RAYON	40.9	35.4	37.9	41.4	40.8	37.5	39.4	36.8	38.7	38.7	36.6	32.6	456.7	451.7
NYLON ^e	70.7	67.5	74.9	80.0	74.8	69.2	62.2	52.8	44.0	41.8	40.9	42.8	721.5	745.1
ARYLIC+MODACRYLIC	50.3	62.2	65.8	65.4	61.0	60.1	51.9	59.8	54.5	55.5	49.8	52.8	694.5	771.1
POLYESTER	208.0	211.1	202.9	243.0	218.0	211.9	212.8	252.0	224.4	214.4	200.2	212.8	2508.8	2549.4
OLEFIN+NYLON	10.8	10.5	11.2	11.7	12.4	11.7	10.7	11.5	10.0	12.0	10.0	9.0	144.4	118.7
TOTAL NON-CELLULOSIC ABOVE	349.4	351.1	351.4	400.6	367.7	352.9	337.0	356.8	333.2	322.4	306.9	318.3	4148.3	4172.3
<u>END-OF-MONTH STOCK</u>														
ACETATE	17.0	15.4	15.8	13.5	11.6	12.1	11.4	13.7	12.0	12.4	12.4	14.3	14.3	18.4
NYLON ^e INDUSTRIAL ^f	57.5	57.0	55.7	56.7	42.5	41.2	45.8	38.5	57.2	58.7	55.4	50.4	50.4	29.4
LOW DENSITY INDUSTRIAL ^g	4.9	5.2	5.1	4.5	5.4	5.2	5.0	3.8	5.0	5.0	4.4	4.5	4.5	6.5
CARPET	57.7	58.2	58.5	55.4	50.4	49.5	47.0	61.3	72.9	80.0	74.0	64.1	64.1	51.0
TEXTILE	42.8	45.1	41.8	41.7	45.0	41.4	45.1	44.5	45.7	47.0	47.5	47.9	47.9	10.1
POLYESTER INDUSTRIAL ^f	23.7	23.1	21.5	20.9	24.7	24.7	24.1	22.7	22.0	20.2	22.8	23.5	23.5	21.3
LOW DENSITY INDUSTRIAL ^g	5.0	4.4	4.5	4.0	5.5	4.0	5.0	5.0	2.7	5.4	2.8	3.0	3.0	4.2
TEXTILE	100.2	104.1	87.5	67.5	72.5	70.0	80.4	84.1	84.0	95.4	90.0	94.0	94.0	62.8
OLEFIN ^h	65.9	62.5	61.0	60.4	58.5	62.4	61.8	62.2	60.2	64.8	65.4	61.7	61.7	60.0
TOTAL NON-CELLULOSIC ABOVE ⁱ	313.3	315.3	292.6	267.7	284.7	291.9	319.3	323.8	354.4	354.1	352.8	357.0	357.0	289.3
<u>STAPLE+TOW+FIBERFILL</u>														
RAYON	24.2	25.1	29.5	28.1	25.4	23.7	23.2	25.7	27.5	25.9	29.2	31.1	31.1	27.2
NYLON ^e	43.5	57.4	57.5	55.4	49.1	48.5	61.0	71.8	72.4	74.4	70.7	64.8	64.8	84.5
ARYLIC+MODACRYLIC	70.5	70.5	74.5	68.5	67.1	65.8	67.8	66.2	64.0	66.7	70.4	65.1	65.1	68.8
POLYESTER	174.2	182.5	190.5	178.5	181.7	185.1	195.4	177.4	170.0	180.1	184.0	174.2	174.2	160.5
OLEFIN+NYLON	10.0	10.0	10.2	15.5	15.2	15.5	10.7	17.0	20.0	21.0	23.8	25.7	25.7	37.2
TOTAL NON-CELLULOSIC ABOVE	300.6	312.9	318.1	295.7	304.1	312.9	340.9	331.3	356.6	341.2	348.8	329.8	329.8	287.0
<u>WOOL & COTTON CONSUMPTION</u>														
APPAREL CLASS WOOL	11.0	12.1	14.0	15.2	11.5	15.0	9.5	12.5	11.7	11.0	10.5	11.0	142.0	127.8
CARPET CLASS WOOL	0.8	0.8	0.9	0.8	0.8	0.8	0.7	1.1	1.0	1.2	0.7	1.0	10.0	10.0
TOTAL RAW WOOL	11.8	12.9	15.5	16.0	12.5	15.8	10.0	13.5	12.8	12.0	11.2	12.0	152.0	137.8
RAW COTTON	217.4	245.4	247.1	258.1	220.8	244.4	195.1	245.7	237.7	246.7	209.5	175.5	2700.0	3000.0

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spandex (elastodyne) and film fiber produced for textile and uses.

i. Spandex and spandex data are not included in these totals. See page 21 of this issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of this issue.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
MAN-MADE FIBER DATA^c								
YARN+MONOFILAMENTS^d								
ACETATE								
	TOTAL SHIPMENTS^b						19.1	20.9
NYLON ^e INDUSTRIAL ^f	26.2						26.2	34.5
LOW DENIER INDUSTRIAL ^g	2.6						2.6	3.0
CARPET	40.5						40.5	67.1
TEXTILE	27.9						27.9	33.7
POLYESTER INDUSTRIAL ^f	22.6						22.6	25.0
LOW DENIER INDUSTRIAL ^g	1.9						1.9	2.1
TEXTILE	75.4						75.4	94.8
OLEFIN ^h	52.0						52.0	56.0
TOTAL NON-CELLULOSIC ABOVEⁱ	248.9						248.9	316.2
STAPLE+TOW+FIBERFILL^j								
RAYON								
	30.3						30.3	40.9
NYLON ^e	48.0						48.0	70.7
ACRYLIC+MODACRYLIC	45.8						45.8	59.3
POLYESTER	173.3						173.3	208.0
OLEFIN+VINYON	7.8						7.8	10.8
TOTAL NON-CELLULOSIC ABOVE	274.9						274.9	349.4
END-OF-MONTH STOCK								
YARN+MONOFILAMENTS								
ACETATE								
	12.4						12.4	17.0
NYLON ^e INDUSTRIAL ^f	41.7						41.7	37.5
LOW DENIER INDUSTRIAL ^g	4.5						4.5	3.9
CARPET	62.3						62.3	37.7
TEXTILE	50.9						50.9	42.8
POLYESTER INDUSTRIAL ^f	23.7						23.7	23.7
LOW DENIER INDUSTRIAL ^g	4.0						4.0	3.6
TEXTILE	93.4						93.4	100.2
OLEFIN ^h	64.3						64.3	63.9
TOTAL NON-CELLULOSIC ABOVEⁱ	344.8						344.8	313.3
STAPLE+TOW+FIBERFILL^j								
RAYON								
	32.6						32.6	24.2
NYLON ^e	63.9						63.9	33.3
ACRYLIC+MODACRYLIC	68.6						68.6	76.5
POLYESTER	180.4						180.4	174.2
OLEFIN+VINYON	30.0						30.0	16.6
TOTAL NON-CELLULOSIC ABOVE	342.9						342.9	300.6
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL								
CARPET CLASS WOOL								
TOTAL RAW WOOL								
RAW COTTON	189.1						189.1	217.4

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 herewith.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spun-bonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 herewith for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 herewith.

Textile Organon

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MONTHLY REVIEW

Highlights

U.S. mill consumption of the principal textile fibers in 1981 totaled 11,580 million pounds, 382 million pounds, or 3%, below the 1980 level of 11,962 million pounds. Man-made fiber at 8,723 million pounds was down ½%, cotton, at its lowest level since 1934, fell 12% to 2,703 million pounds and wool increased 11% to 153 million pounds.

Due to increased imports of semimanufactured and manufactured products, domestic consumption increased 1½% to 12,255 million pounds.

FEBRUARY SHIPMENTS INCREASED 5%

Shipments of non-cellulosic fibers (except saran and spandex) totaled 550.2 million pounds, a 5% increase over the depressed January level of 523.8 million pounds. The upturn in February deliveries broke a 5-month period of declining monthly shipment figures beginning in August of last year. Between April 1981, when a record 760.5 million pounds of non-cellulosic fibers (except saran and spandex) were delivered, and January 1982, shipments fell by 31%.

A similar pattern of non-cellulosic fiber shipments (except saran or spandex) was shown during the 1974-1975 recession. Then, shipments peaked in May 1974 at 566.5 million pounds and, by December of that year (the nadir of the cycle), had fallen by 53% to 267.6 million pounds. However, the upturn in 1975 appeared to occur much faster than is now the case, with January 1975 shipments 22% above December's low. By December 1975, shipments were 127% above the previous year's low. In fact, by August 1975 non-cellulosic shipments (except saran and spandex) had exceeded the pre-recession high of May 1974.

February 1982 deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 268.2 million pounds, 7½% above the 248.9 million

pounds shipped in January. For non-cellulosic staple+tow, February shipments of 282.0 million pounds exceeded January deliveries by 2½%.

JANUARY AND FEBRUARY SHIPMENTS COMPARED

Following is a comparison of total February shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with January (million pounds), and the percentage change, respectively: nylon industrial 29.2 & 26.2 & +11%; low denier industrial 2.3 & 2.6 & -12%; carpet 43.3 & 40.3 & +7½%; textile 27.0 & 27.9 & -3%; polyester industrial 24.4 & 22.6 & +8%; low denier industrial 1.8 & 1.9 & -5½%; textile 87.8 & 75.4 & +16%; olefin 52.4 & 52.0 & +1% and the total of these fibers 268.2 & 248.9 & +7½%.

Similarly, for non-cellulosic staple+tow, the corresponding data are: nylon 48.3 & 48.0 & +½%; acrylic+modacrylic 47.7 & 45.8 & +4%; polyester 176.4 & 173.3 & +2%; olefin+vinyon 9.6 & 7.8 & +23% and the total 282.0 & 274.9 & +2½%.

YEAR-TO-DATE SHIPMENTS 19% BELOW LAST YEAR

For the first two months of 1982, non-cellulosic fiber (except saran and spandex) deliveries totaled 1,074.0 million pounds, 19% less than the 1,332.2 million pounds shipped during the January-February 1981 period. Year-to-date shipments of non-cellulosic yarn+monofilaments totaled 517.1 million pounds as of the end of February, 18% less than were delivered during the corresponding 1981 period. January-February 1982 shipments of non-cellulosic staple+tow totaled 556.9 million pounds, 20% less than the 700.5 million pounds shipped during the first two months of 1981.

CELLULOSIC SHIPMENTS FELL 7% IN FEBRUARY

February deliveries of acetate filament yarn and rayon staple+tow totaled 45.8 million pounds, 7½% less than

the 49.4 million pounds shipped during January last. Deliveries for the first two months of 1982, at 95.2 million pounds, were 20% below the 118.8 million pounds shipped during the corresponding 1981 period.

Acetate yarn shipments during February totaled 16.9 million pounds, 12% less than the 19.1 million pounds delivered in January. Year-to-date shipments of 36.0 million pounds were 15% less than the 42.5 million pounds delivered during the first two months of 1981.

Deliveries of rayon staple+tow in February were 28.9 million pounds, 4½% below the 30.3 million pounds shipped in January. February shipments were the first month rayon staple+tow shipments had fallen below the 30 million pound level since June 1975. January-February 1982 shipments of 59.2 million pounds were 22% less than the 76.3 million pounds shipped during the corresponding 1981 period.

PRODUCER STOCKS OF MAN-MADE FIBERS DECLINED ½% IN FEBRUARY

As of February 28th, 1982, man-made fiber producers had on hand 729.8 million pounds of man-made fibers, ½% less than the 732.7 million pounds on hand as of January 31st, 1982. Coupled with the increased February shipments, the stock on hand represented 27 days' supply (based on a 22-day shipping month) versus a 28-day supply as of the end of January.

For filament yarn, the ratio of the end-of-month stock to shipments (based on a 22-day shipping month) for February was as follows: acetate 15 days, nylon industrial 28 days, low denier industrial 43 days, carpet 29 days, textile 43 days, polyester industrial 23 days, low denier industrial 42 days, textile 23 days and olefin 27 days.

Similarly, for staple+tow, the stock on hand is 27 days for rayon, 27 days for nylon, 30 days for acrylic+modacrylic, 24 days for polyester and 72 days for olefin+vinylon.

TEXTILE FIBER CONSUMPTION

Annual data on three principal aspects of U.S. fiber consumption (mill, domestic and per capita) from 1970 through 1981 are presented herewith. Earlier data on these series back to 1920 were given on pages 26-27 of the January 1962 *Organon* issue and subsequent revisions for the years 1955-1964 were shown on page 22 of the March 1971 issue. Those for the years 1965-1969 were shown on page 28 of the March 1980 issue.

U.S. mill consumption fell by 3% in 1981 to 11,580.2 million pounds. Of this total, man-made fibers accounted for 8,722.5 million pounds, or 75.3%; cotton 2,703.0 million pounds, or 23.4% and wool 152.7 million pounds, or 1.3%. U.S. mill consumption of cotton in 1981 was the lowest annual total in almost fifty years, just above the 2,659.5 million pounds consumed in 1934.

However, domestic consumption rose by 1½% to

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Textile Organon

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An arrangement of authentic market data, especially important to the United States Man-Made Fiber industry, published monthly in the interest of good business.

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12,255.5 million pounds as a result of increased imports and lower exports. In 1981 imports represented 14% of domestic consumption as opposed to 12% in 1980. In 1981, imports represented 7½% of man-made fiber domestic consumption, 29% of cotton domestic consumption and 40% of wool domestic consumption.

MILL CONSUMPTION - METHOD

The data of columns 1, 4, 12 and 15 of the page 44 table show U.S. fiber producers' domestic shipments of the specified man-made fibers. To each of these categories were added the corresponding man-made fiber imports of raw materials such as yarn, staple and tow, the import classes being detailed in the table footnote. The sum of the domestic shipments plus raw fiber imports gives the domestic mill consumption of these fibers shown in columns 3, 6, 14 and 17.

The yarn+monofilaments imports shown in columns 2 and 13 on page 44 comprise yarn singles, monofilaments and strips. Plyed yarns are considered a semimanufactured product and thus are **not** included here, but rather are counted as part of domestic consumption.

Producers' waste shipments are handled differently in that columns 7 and 18 represent the producers' total shipments of waste fiber, rather than domestic shipments. This is because the producer sends its waste fiber to a processor who reclaims the waste and either ships it to a domestic customer or exports it. Thus, at the time of the waste shipment, the producer does not know its ultimate destination. Therefore, the producers' total waste fiber shipments are added to the imports of waste fiber and from this total are subtracted exports of waste fiber, yielding mill consumption of waste fiber.

Imports of textile glass fiber are not shown separately in the page 44 table; rather, column 23 represents mill consumption of textile glass fiber. For greater detail on domestic shipments and imports of textile glass fiber, see page 21 of the February 1982 *Organon* issue.

The sum of columns 11 (3+6+10), 22 (14+17+21) and 23 gives the total deliveries of man-made fiber to domestic mills, as shown in column 24. In this survey, these deliveries are considered as the equivalent of mill consumption, or the fibers put into process by mills. Any changes in mill holdings of unopened cases or bales are not taken into account.

The cotton data of column 25 agree with those presented in the monthly *Organon* table on Selected U.S. Monthly Textile Fiber Data on page 64 herewith and page 40 of the February issue. Cotton is regarded as consumed when the bale is opened at the spinning mill. The data are based on the Census Series M22P figures, adjusted to a calendar-month basis. Through 1970, the data are based on the relationship between the number of running bales and the equivalent 480-pound net weight bales. Beginning August 1972, the M22P reports

show both bales and pounds.

The scoured basis wool data presented in column 26 consist of carpet class wool **plus** the following components of apparel class wool: the production of apparel wool tops combed or worsted combs; shorn and pulled wool of the sheep (domestic and foreign duty paid) consumed in spinning other than carpet yarns on the woolen system; and other wool of the sheep (tops, noils, etc.) consumed for spinning into other than carpet and rug yarns on the woolen system. These data are the same as those presented in the Selected U.S. Monthly Textile Fiber Data table of each *Organon* issue.

Not included here, nor in the monthly *Organon* data, are imported wool tops and yarns; wool consumed in spinning on systems other than the woolen & worsted, e.g., the cotton spinning system; reprocessed & reused wool; and animal hair other than the fleece of the sheep or lamb, i.e., hair of the Angora goat (mohair), cashmere goat, camel, alpaca, llama, vicuna, etc.

The silk data of column 27 comprise imports for consumption of raw silk, as well as tussah, cocoons, noils and waste, i.e., re-exports are not taken into account.

U.S. MILL CONSUMPTION DECLINED 3% LAST YEAR

Mill consumption of man-made fibers, cotton and wool declined 3% in 1981, to 11,580.2 million pounds from the 11,962.3 million pounds U.S. mills consumed in 1980. The 1981 total comprised 8,722.5 million pounds of man-made fibers, 2,703.0 million pounds of cotton, 152.7 million pounds of wool and 2.0 million pounds of silk. Thus, man-made fibers accounted for 75.3% of total U.S. mill consumption, cotton 23.4% and wool 1.3%.

Compared with 1980, only wool and silk registered gains. Man-made fiber usage fell only ½%, cotton usage plunged 12%, but wool usage climbed 11% in 1981 as compared with 1980. U.S. mill consumption of cotton last year was the lowest since 1934 when U.S. mills processed some 2,660 million pounds of cotton.

MAN-MADE FIBER MILL CONSUMPTION FELL ½% IN 1981

Consumption of man-made fibers in 1981 by U.S. mills totaled 8,722.5 million pounds, ½% less than the 8,760.1 million pounds used during 1980. Thus, in 1981, man-made fibers represented 75.3% of total mill usage of fibers, up a full two percentage points from 73.2% the previous year. The 1981 total was made up of 714.3 million pounds of cellulosic fibers, 7,026.2 million pounds of non-cellulosic fibers and a record 982.0 million pounds of textile glass fiber.

U.S. mill consumption of cellulosic fibers fell by 5½% in 1981, to 714.3 million pounds, from the 740.7 million

(Continued on page 50)

U.S. MILL CONSUMPTION OF FIBER AND DOMESTIC CONSUMPTION OF FIBER & PRODUCTS

MILLION POUNDS & Percent

MAN-MADE FIBER MILL CONSUMPTION - PRODUCERS' SHIPMENTS (DOM) PLUS IMPORTS FOR CONSUMPTION (IMP)																							TEXTILE GLASS FIBER TOTAL
RAYON+ACETATE											NON-CELLULOSIC FIBER												
YARN+MONOFILAMENTS				STAPLE+TOW			WASTE				TOTAL	YARN+MONOFILAMENTS				STAPLE+TOW			WASTE				
YEAR	DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET		DOM	IMP	TOTAL	DOM	IMP	TOTAL	SHIP	IMP	EXP	NET		
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	(22)	(23)
1970	695.9	3.7	699.6	634.2	89.6	723.8	34.5	0.1	22.9	11.7	1,426.1	1,682.6	120.8	1,803.4	1,682.1	57.7	1,739.8	136.3	21.7	31.3	126.7	3,669.9	404.9
1971	729.3	5.2	734.5	669.8	81.3	751.1	36.3		15.9	20.4	1,506.0	2,100.1	234.4	2,334.5	1,964.1	93.3	2,057.4	157.8	36.2	29.4	164.6	4,556.5	466.7
1972	652.8	10.8	663.6	718.4	51.3	769.7	38.5		23.6	14.9	1,428.2	2,089.8	224.5	2,314.3	2,363.1	103.7	2,466.8	202.7	48.0	63.5	187.2	5,568.5	569.2
1973	589.9	18.1	608.0	734.5	47.4	781.9	36.8		37.5	-0.7	1,389.2	3,273.7	140.1	3,413.8	2,848.4	112.8	2,961.2	274.8	47.8	98.6	224.0	6,599.0	676.0
1974	473.4	9.2	482.6	589.2	38.7	627.9	29.9	0.2	33.0	-2.9	1,107.6	3,142.3	92.1	3,234.4	2,450.5	73.2	2,523.7	246.4	46.3	91.2	201.5	5,959.0	630.8
1975	508.6	9.2	517.8	385.4	37.9	423.3	13.2	0.1	12.4	0.9	802.0	3,214.8	53.8	3,268.6	2,553.5	55.2	2,608.7	228.7	25.0	50.0	203.7	6,081.0	533.5
1976	514.5	25.1	539.6	472.0	43.2	515.2	14.7	0.4	14.6	0.5	855.3	3,147.2	64.0	3,211.2	3,018.5	67.3	3,085.8	262.3	30.5	70.2	222.6	6,519.6	677.6
1977	327.5	23.5	351.0	452.9	57.8	510.7	18.5	0.6	12.6	6.5	868.2	3,461.4	92.5	3,553.9	3,373.1	52.9	3,426.0	291.0	23.2	66.1	248.1	7,228.0	791.3
1978	357.6	25.7	383.3	466.2	41.1	507.3	15.7	0.4	7.0	9.1	879.7	3,641.9	52.2	3,694.1	3,505.5	60.5	3,566.0	263.9	26.0	88.7	201.2	7,461.5	886.7
1979	343.4	13.3	356.7	449.4	16.5	465.9	17.2	0.8	9.6	8.4	831.0	3,797.6	20.0	3,817.6	3,713.5	39.3	3,752.8	238.6	21.1	137.7	122.0	7,692.4	922.6
1980	316.7	8.3	325.0	397.7	10.3	408.0	13.5	0.3	6.1	7.7	740.7	3,532.0	19.6	3,551.6	3,482.5	35.6	3,518.1	170.2	21.5	116.4	75.3	7,145.0	874.4
1981	272.9	10.7	283.6	400.9	16.8	417.7	15.3	0.5	2.8	13.0	714.3	3,483.1	18.9	3,502.0	3,327.9	60.5	3,388.4	193.2	49.9	107.3	135.8	7,026.2	982.0

MILL CONSUMPTION OF 4 FIBERS										DOMESTIC CONSUMPTION OF 3 FIBERS (CONS) - MILL CONSUMPTION+IMPORTS (IMP) LESS EXPORTS (EXP) OF SEMIMANUFACTURED & MANUFACTURED PRODUCTS												
MAN-MADE FIBER ^a		COTTON		WOOL		SILK		TOTAL		MAN-MADE FIBER			COTTON			WOOL			TOTAL			
YEAR	LB	%	LB	%	LB	%	LB	%	LP	%	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS	IMP	EXP	CONS
	(24)		(25)		(26)		(27)		(28)		(29)	(30)	(31)	(32)	(33)	(34)	(35)	(36)	(37)	(38)	(39)	(40)
1970	5,500.9	57.6	3,773.6	39.5	273.3	2.9	1.8	--	9,549.6	100	329.3	147.1	5,683.1	463.1	199.2	4,037.5	85.9	4.9	35.3	878.3	351.2	10,074.9
1971	6,529.2	60.9	3,965.1	37.0	219.3	2.1	1.7	--	10,715.3	100	451.1	146.7	6,833.6	492.6	226.4	4,231.3	66.2	9.4	276.1	1,009.9	382.5	11,341.0
1972	7,565.7	64.9	3,849.8	31.0	246.9	2.1	2.1	--	11,664.5	100	480.5	177.6	7,868.6	610.7	290.4	4,170.1	63.0	30.6	279.3	1,154.2	498.6	12,318.0
1973	8,064.2	69.3	3,643.3	29.2	182.1	1.5	3.3	--	12,492.9	100	465.3	288.2	8,841.3	565.5	325.2	3,881.6	61.3	30.8	212.6	1,080.1	644.2	12,935.5
1974	7,698.0	69.2	3,306.1	29.7	116.5	1.1	2.6	--	11,123.2	100	371.3	390.7	7,678.6	502.7	392.5	3,416.3	53.3	23.0	146.8	927.3	806.2	11,241.7
1975	7,416.5	69.9	3,068.7	28.9	132.0	1.2	1.0	--	10,618.2	100	400.4	322.4	7,494.5	501.3	358.7	3,216.3	48.6	19.2	161.4	950.3	695.3	10,872.2
1976	8,052.5	69.5	3,389.0	29.2	145.9	1.3	2.8	--	11,590.2	100	479.5	352.2	8,179.8	708.6	418.2	3,684.4	66.7	13.9	198.7	1,254.8	779.3	12,062.9
1977	8,887.5	72.9	3,169.8	26.0	133.9	1.1	1.6	--	12,192.8	100	530.7	367.6	9,050.6	669.4	369.5	3,469.7	85.9	11.5	208.3	1,286.0	748.6	12,728.6
1978	9,227.7	74.4	3,040.4	24.5	141.6	1.1	2.0	--	12,411.7	100	642.3	441.7	9,428.6	845.4	355.7	3,530.1	92.2	11.6	222.2	1,580.2	809.0	13,180.9
1979	9,446.0	74.7	3,066.4	24.2	134.4	1.1	1.5	--	12,648.3	100	525.6	596.6	9,374.4	746.1	478.0	3,334.5	80.6	14.0	201.0	1,351.7	1,088.6	12,909.9
1980	8,760.1	73.2	3,064.4	25.6	137.8	1.2	--	--	11,962.3	100	540.6	771.5	8,529.2	810.9	523.1	3,352.2	85.1	23.8	199.1	1,436.6	1,318.4	12,080.5
1981	8,722.5	75.3	2,703.0	23.4	152.7	1.3	2.0	--	11,580.2	100	639.1	657.7	8,723.9	961.9	467.3	3,297.6	93.1	11.8	234.0	1,694.1	1,016.8	12,255.5

a. The man made fiber data include textile glass fiber as shown in Column 23 in the upper section. For detail on producers' shipments and imports of textile glass fiber, see page 21 of the February 1982 issue.

SOURCES OF DATA, ARRANGED BY COLUMN NUMBER ()

All Census import and export commodity numbers are as of January 1978.

1, 4, 7, 12, 15, 18 & 23 February 1982 ORGANON, page 21.

2 Import Classes 309.0310, 0610, 2000, 310.0106, 0130, 0206, 0230, 0510 & 0610.

5 Import Classes 309.3010, 3110, 4320 & 4325.

8 Import Classes 309.6615 & 7510.

9 Export Class 309.7400.

13 Import Classes 309.0200, 0330, 0365, 0500, 0630, 0665, 2100, 2500, 310.0109, 0114, 0149, 0170, 0209, 0214, 0249, 0270, 0530, 0550, 0630 & 0650.

16 Import Classes 309.3030, 3065, 3130, 3165 & 4338-4355.

19 Import Classes 309.6000, 6625, 7000 & 7525, 7555.

20 Export Classes 309.7620, 7630, 7640 & 7660.

25 U.S. Census Bureau Report M22P. See text page 43.

26 U.S. Census Bureau Report M22D. See text page 43.

27 Import Classes 308.0200, 2000.

29, 30, 32, 33, 35 & 36 Cotton and Wool Situation (U.S. Department of Agriculture).

CERTAIN TOTALS IN THE TABLES

(Obvious totals such as Columns 1+2=3, 4+5=6, etc., are not described here.)

10 Columns 7+8-9 24 Columns 11+22+23 34 Columns 25+32-33

21 Columns 18+19-20 31 Columns 24+29-30 37 Columns 26+35-36

RAW FIBER EQUIVALENT OF IMPORTS & EXPORTS OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

COMMODITY	MAN-MADE FIBER							COTTON							WOOL						
	ANNUAL AVERAGE		1977	1978	1979	1980	1981	ANNUAL AVERAGE		1977	1978	1979	1980	1981	ANNUAL AVERAGE		1977	1978	1979	1980	1981
	1970-1974	1975-1979						1970-1974	1975-1979						1970-1974	1975-1979					
IMPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC. ^a	25.4	34.1	39.7	59.7	38.5	30.2	34.9	27.1	18.9	13.5	30.8	12.4	19.4	24.1	8.2	5.4	6.6	6.1	4.2	4.2	5.0
CLOTH ^b	102.5	87.7	87.9	109.6	81.6	81.4	106.2	281.1	266.6	244.6	299.9	236.7	258.4	350.3	13.2	17.4	18.7	25.8	21.7	21.1	27.8
SUBTOTAL	127.9	121.8	127.6	169.3	119.1	111.6	141.1	308.2	285.5	258.1	330.7	249.1	277.8	374.4	21.4	22.8	25.3	31.9	25.9	25.3	32.8
MANUFACTURED PRODUCTS																					
WEARING APPAREL ^c	253.4	357.1	366.1	425.6	359.8	378.6	437.1	158.7	344.2	348.3	430.2	426.5	463.8	504.0	50.4	36.8	44.1	44.9	39.2	41.7	40.9
INDUSTRIAL ^d	7.6	0.7	2.7	0.1	0.1	0.1	0.3	8.3	5.7	5.6	6.7	5.6	10.1	8.8	NOMINAL POUNDAGES INCLUDED IN OTHER						
HOME FURNISHINGS ^e	30.6	36.0	34.3	47.6	46.0	50.3	60.6	36.9	40.7	39.4	57.7	44.4	45.4	59.5	11.7	14.1	15.3	14.5	14.4	17.3	18.5
ALL OTHER ^f								14.4	18.0	18.0	20.1	20.7	13.8	15.2	2.4	1.1	1.2	0.9	1.1	0.8	0.9
SUBTOTAL	291.6	393.8	403.1	473.3	405.9	429.0	498.0	218.3	408.6	411.3	514.7	497.0	533.1	587.5	44.5	52.0	60.6	60.3	54.7	59.8	60.3
TOTAL IMPORTS	419.5	515.6	530.7	642.6	525.0	540.6	639.1	526.5	694.1	669.4	845.4	746.1	810.9	961.9	65.9	74.8	85.9	92.2	80.6	85.1	93.1
EXPORTS																					
SEMIMANUFACTURED PRODUCTS																					
YARN, THREAD, ETC. ^a	23.3	39.5	39.5	47.7	55.8	53.3	62.2	20.7	23.7	16.9	32.0	34.2	47.0	38.1	14.0	5.5	3.2	2.6	4.2	4.8	3.6
CLOTH ^b	113.0	186.0	153.2	187.5	257.6	298.5	256.4	170.0	224.9	204.0	187.8	267.1	212.3	127.7	0.7	1.2	0.9	1.2	1.5	1.6	1.9
SUBTOTAL	136.3	225.5	192.7	225.2	313.4	351.8	318.6	190.7	248.6	220.9	219.8	301.3	259.3	165.8	14.7	6.7	4.1	3.8	5.7	6.4	5.5
MANUFACTURED PRODUCTS																					
WEARING APPAREL ^c	21.5	43.1	40.3	48.6	60.5	127.1	120.7	32.9	63.0	65.3	61.8	90.9	180.8	123.0	1.8	3.6	2.4	5.5	5.9	14.9	4.0
INDUSTRIAL ^d	11.2	46.0	35.5	63.9	87.0	115.5	48.1	17.8	23.4	24.5	23.8	25.2	19.6	17.5	NOMINAL POUNDAGES INCLUDED IN OTHER						
HOME FURNISHINGS ^e	24.3	52.5	56.6	43.8	65.6	111.4	84.2	23.5	36.9	37.3	32.2	42.2	43.0	38.7	1.7	1.9	2.7	0.8	0.3	0.4	0.3
ALL OTHER ^f	36.8	49.0	42.5	60.2	70.1	65.7	66.1	21.8	22.1	21.5	18.1	18.4	20.4	22.3	1.5	1.9	2.3	1.5	2.1	2.1	2.0
SUBTOTAL	93.8	190.6	174.9	216.5	283.2	419.7	319.1	96.0	145.4	148.6	135.9	176.7	263.8	201.5	5.0	7.4	7.4	7.8	8.3	17.4	6.3
TOTAL EXPORTS	230.1	416.1	367.6	441.7	596.6	771.5	637.7	286.7	394.0	369.5	355.7	478.0	523.1	367.3	19.7	14.1	11.5	11.6	14.0	23.8	11.8
NET EXPORTS (+) OR																					
NET IMPORTS (-)																					
	-189.4	-99.5	-163.1	-200.9	+71.6	+230.9	-1.4	-239.8	-300.1	-299.9	-489.7	-268.1	-287.8	-594.6	-46.2	-60.7	-74.4	-80.6	-66.6	-61.3	-81.3

SOURCE: U.S. Department of Agriculture, *Cotton and Wool Situation*.

a. Includes sliver, tops, roving, plied (textured and other), thrown and spun yarn, sewing thread and handwork yarns. Yarn singles (textured and other) are not included here; rather they are included in Column 13 on page 44 above.

b. Includes broad & narrow woven fabrics and knit cloth, except that cotton narrow fabrics and wool knit fabrics are included in All Other.

c. Wool includes lace & lace articles, veils & veillings and nets & nettings.

d. The man-made fiber data are tire cord & tire cord fabric.

e. Includes carpets & rugs. Lace window curtains are in All Other.

f. Includes such products as lace & lace articles, lace window curtains, braids, tassels, polishing & dustcloths, etc. Wool includes knit fabric in the piece, but not lace & lace

articles, which are in Wearing Apparel.

g. Includes broad & narrow woven fabrics and knit cloth. Cotton also includes table damask, tire cord & fabric. Cotton knit fabrics and narrow fabrics are included in All Other.

h. Includes carpets & rugs.

i. Includes such products as lace & lace articles, polishing & dustcloths, braids, tassels, etc. Cotton also includes knits and narrow fabric.

Note: In the case of blended or mixed fiber products, the poundages of each of the component fibers have been estimated and included in the proper category, e.g., in a polyester and cotton fabric, the polyester portion is tabulated with man made fiber and the cotton portion with cotton. A waste factor has been included to bring the data to the equivalent raw fiber consumption, see text page 50.

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER, COTTON & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	1976			1977			1978			1979			1980			1981		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
MAN-MADE FIBER MANUFACTURES																		
SILVER, TORS & ROVING	2.8	12.5	-9.5 E	4.8	12.1	-7.3 E	7.6	10.2	-2.6 E	6.7	15.2	-8.5 E	2.8	15.1	-12.3 E	3.7	11.0	-7.3 E
SPIN YARNS ^b	15.9	22.0	-6.1 E	51.5	25.8	-25.7 E	49.6	21.8	-27.8 E	28.5	54.2	-25.7 E	25.1	52.8	-27.7 E	28.5	45.7	-17.2 E
THREAD & CRAFT YARNS	2.5	2.6	-0.1 E	3.5	3.6	-0.1 E	2.5	5.8	-3.3 E	2.6	8.4	-5.8 E	2.5	7.4	-4.9 E	2.9	5.5	-2.6 E
TIRE CORD & FABRIC	0.2	25.6	-25.4 E	2.6	55.5	-52.9 E	0.1	65.9	-65.8 E	0.1	87.0	-86.9 E	0.1	115.5	-115.4 E	0.5	48.1	-47.6 E
WOVEN FABRIC	64.2	139.4	-75.2 E	67.7	151.4	-83.7 E	87.8	165.7	-77.9 E	64.6	228.7	-164.1 E	67.5	249.8	-182.3 E	95.4	208.5	-113.1 E
KNIT FABRIC	15.1	16.9	-1.8 E	12.6	11.5	1.1 E	12.4	9.8	2.6 E	8.0	16.4	-8.4 E	6.0	25.2	-19.2 E	2.1	21.7	-19.6 E
NARROW FABRIC	6.9	9.5	-2.6 E	7.6	10.5	-2.9 E	9.4	12.0	-2.6 E	8.9	12.5	-3.6 E	8.1	25.5	-17.4 E	8.7	26.2	-17.5 E
APPAREL KNIT	269.8			218.7			242.4			184.5			187.7			184.7		
NOT KNIT	154.6	54.4	310.0 I	147.4	40.5	325.8 I	185.2	48.6	377.0 I	175.3	60.5	299.5 I	190.9	127.1	251.5 I	252.4	120.7	316.4 I
HOME FURNISHINGS		51.9			56.6			45.8			65.6			111.4			84.2	
OTHER	31.5	57.8	-26.3 E	34.5	42.5	-8.0 E	47.6	60.1	-12.5 E	46.0	70.1	-24.1 E	50.5	65.7	-15.2 E	60.6	66.1	-5.5 E
TOTAL MAN-MADE FIBER MANUFACTURES	479.5	352.2	127.3 I	530.7	367.6	163.1 I	642.6	441.7	200.9 I	525.0	596.6	-71.6 E	540.6	771.5	-230.9 E	639.1	637.7	-1.4 I
COTTON MANUFACTURES																		
SPIN YARNS ^c	25.7	14.2	11.5 I	15.1	15.0	0.1 E	40.4	22.1	-18.3 E	11.9	29.8	-17.9 E	18.6	32.3	-13.7 E	25.1	22.9	-2.2 E
THREAD & CRAFT YARNS	0.5	4.5	-4.0 E	0.4	5.9	-5.5 E	0.4	9.9	-9.5 E	0.5	4.4	-3.9 E	0.8	14.7	-13.9 E	1.0	15.2	-14.2 E
WOVEN FABRIC ^d	325.2	248.4	76.8 I	244.0	204.0	40.0 E	299.9	187.8	-112.1 E	236.7	267.1	-30.4 E	258.4	212.5	-45.9 E	330.5	127.7	-202.8 E
APPAREL KNIT		11.1			14.0			21.3			35.3			65.2			60.4	
NOT KNIT	295.2	45.2	250.0 I	348.5	51.5	297.0 I	450.2	40.5	409.7 I	426.5	57.6	368.9 I	463.8	115.6	348.2 I	504.0	62.6	441.4 I
HOME FURNISHINGS	58.4	41.0	17.4 E	59.4	57.3	2.1 E	57.7	52.2	5.5 E	44.4	42.2	2.2 E	45.4	45.0	0.4 E	59.5	58.7	0.8 E
OTHER	25.6	51.0	-25.4 E	25.6	46.0	-20.4 E	26.8	41.9	-15.1 E	26.5	45.6	-19.1 E	25.9	40.0	-14.1 E	24.0	59.8	-35.8 E
TOTAL COTTON MANUFACTURES	708.6	413.2	295.4 I	669.4	369.5	299.9 I	845.4	355.7	-489.7 I	746.1	478.0	-268.1 I	810.9	523.1	-287.8 I	961.9	367.3	-594.6 I
WOOL MANUFACTURES																		
SILVER, TORS & ROVING	0.4	4.9	-4.5 E	0.8	1.7	-0.9 E	0.6	1.5	-0.9 E	0.4	5.2	-4.8 E	0.5	4.2	-3.7 E	0.5	2.6	-2.1 E
SPIN YARNS	5.4	0.8	4.6 E	5.8	1.5	4.3 E	5.5	1.3	4.2 E	3.8	1.0	2.8 E	3.9	0.6	3.3 E	4.7	1.0	3.7 E
WOVEN FABRIC	12.2			18.7	0.7	18.0 E	25.8	1.0	24.8 E	21.7	1.2	20.5 E	21.1	1.4	19.7 E	27.8	1.7	26.1 E
KNIT FABRIC		1.0			0.2			0.2			0.5			0.2			0.2	
APPAREL KNIT	18.9	0.5	18.4 E	25.8	0.6	25.2 E	22.5	4.5	18.0 E	19.1	4.6	14.5 E	24.4	15.0	9.4 E	22.8	2.0	20.8 E
NOT KNIT	14.1	1.7	12.4 E	18.5	1.8	16.7 E	22.6	1.2	21.4 E	20.1	1.3	18.8 E	17.3	1.9	15.4 E	18.1	2.0	16.1 E
HOME FURNISHINGS	14.4	2.9	11.5 E	15.5	2.7	12.8 E	14.5	0.8	13.7 E	14.4	0.5	13.9 E	17.5	0.4	16.9 E	18.5	0.5	18.0 E
OTHER	1.5	2.1	-0.6 E	1.2	2.5	-1.3 E	0.9	1.5	-0.6 E	1.1	2.1	-1.0 E	0.8	2.1	-1.3 E	0.9	2.0	-1.1 E
TOTAL WOOL MANUFACTURES	66.7	13.9	52.8 I	85.9	11.5	74.4 I	92.2	11.6	80.6 I	80.6	14.0	66.6 I	85.1	23.8	61.3 I	95.1	11.8	83.3 I
TOTAL MANUFACTURES	1,254.8	779.3	475.5 I	1,286.0	748.6	537.4 I	1,580.2	809.0	771.2 I	1,351.7	1,088.6	-263.1 I	1,436.6	1,318.4	-118.2 I	1,694.1	1,016.8	-677.3 I

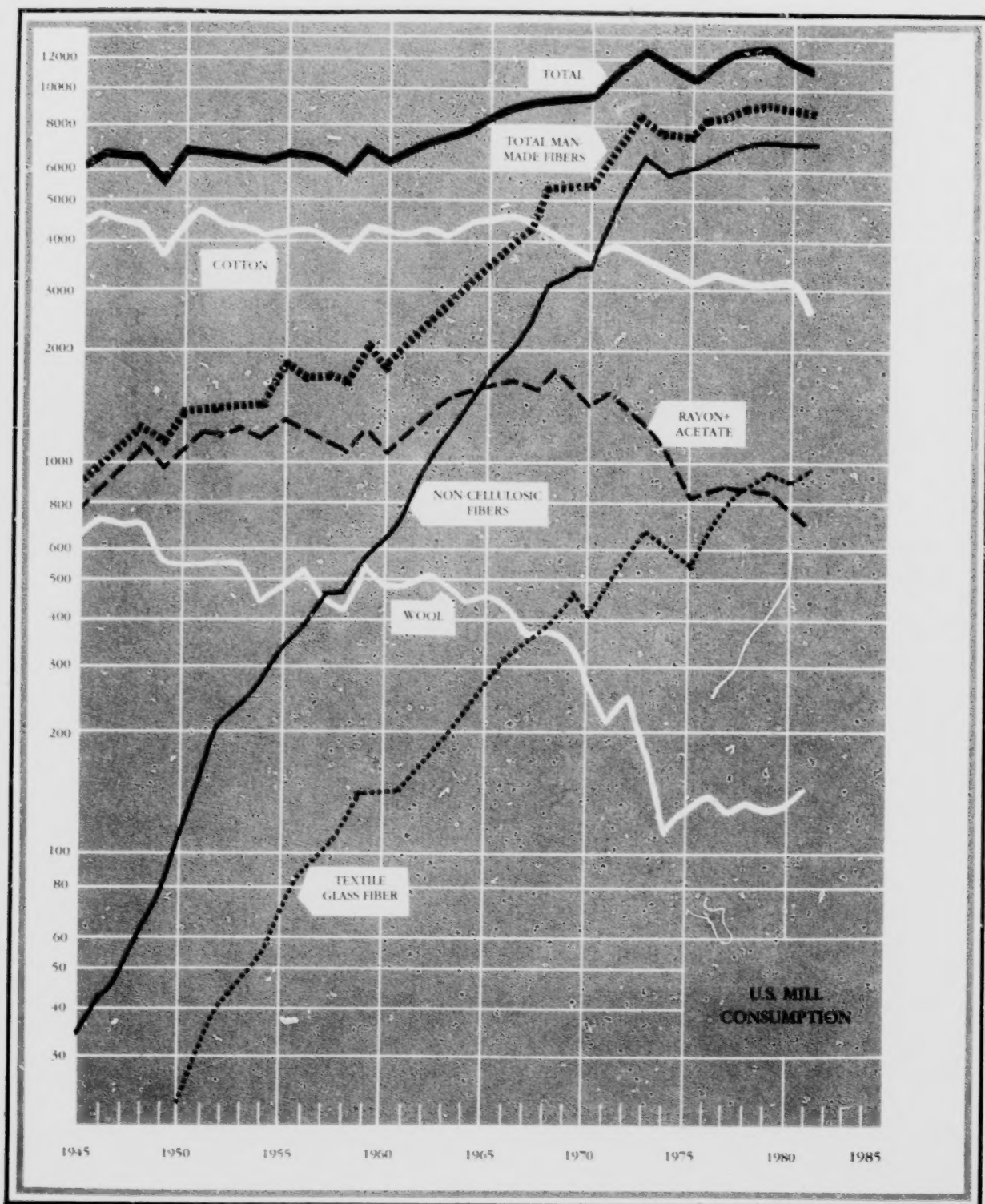
SOURCE: *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

a. E means a net export balance; I is a net import balance.

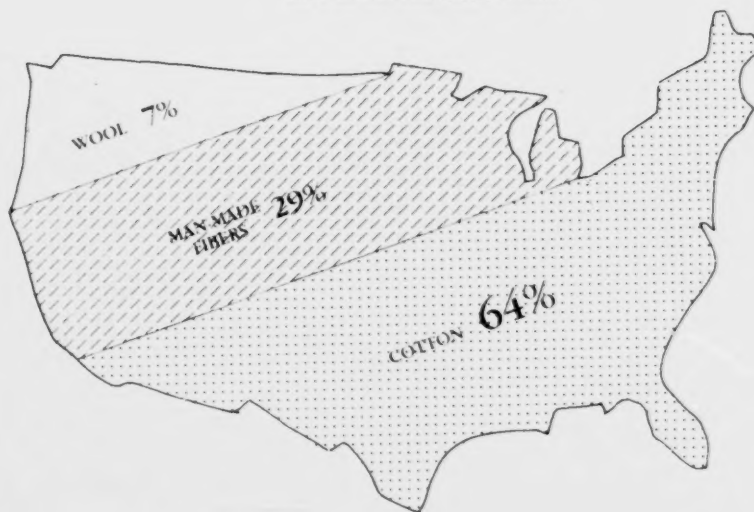
b. Includes thrown or plied yarn imports.

c. Includes twine & cordage exports.

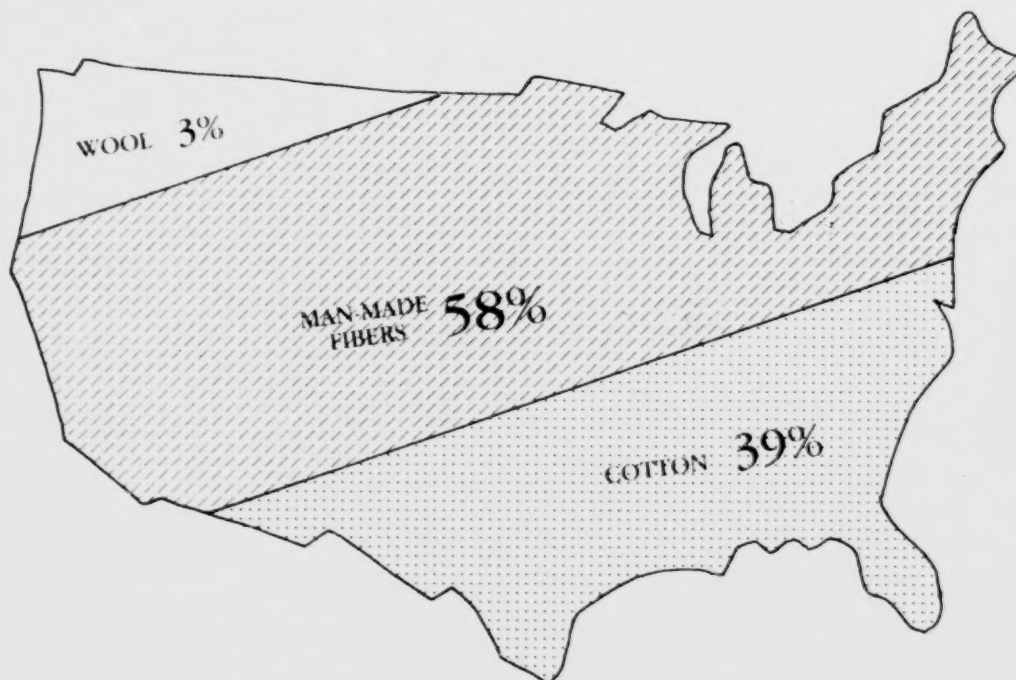
d. Includes tire cord exports.



U.S. MILL CONSUMPTION

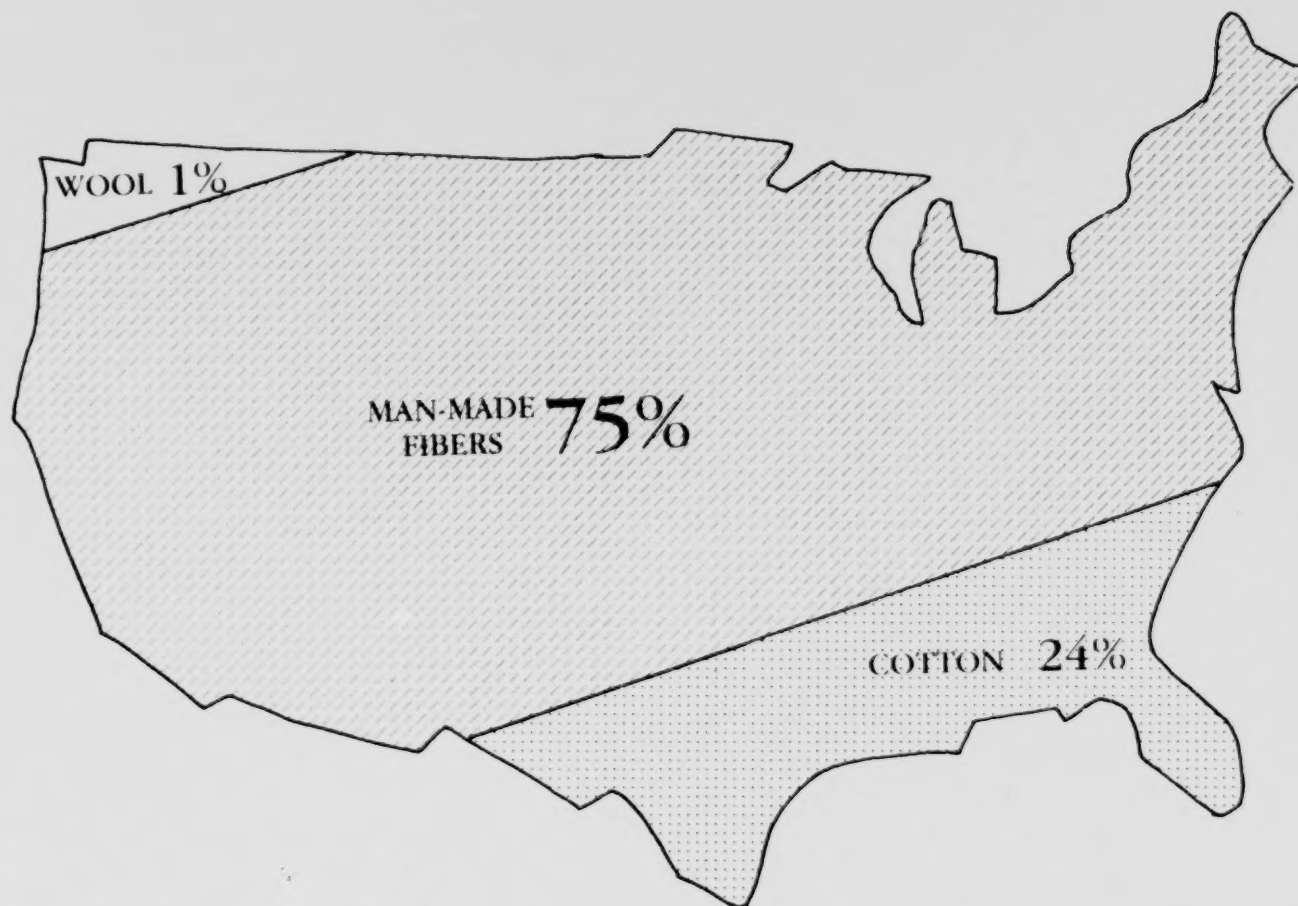


1960
6,558 million pounds



1970
9,550 million pounds

U.S. MILL CONSUMPTION



1981
11,580 million pounds

(Continued from page 43)

pounds used in 1980. Usage of cellulosic yarn fell by 13% in 1981, to 283.6 million pounds, while consumption of staple+tow rose 2½% to 417.7 million pounds. Cellulosic usage represented 6.2% of total U.S. mill consumption, the same as in 1980 and was at its lowest level since 1944 when some 705 million pounds were consumed.

In 1981, mill usage of non-cellulosic fibers totaled 7,026.2 million pounds, 1½% less than the 7,145.0 million pounds that U.S. mills consumed in 1980. This 1981 consumption figure represented 60.7% of total U.S. mill consumption, up from 59.7% the previous year. Mill consumption of non-cellulosic yarn+monofilaments, at 3,502.0 million pounds, was 1½% below the previous year and mill usage of non-cellulosic staple+tow fell by 3½% in 1981, to 3,388.4 million pounds.

Textile glass fiber consumption in 1981 totaled a record 982.0 million pounds, 12% above the 874.4 million pounds consumed in 1980. Thus, in 1981, textile glass fiber represented 8.5% of mill usage, up from 7.3% in 1980.

MILL CONSUMPTION BY FIBER

The text table following details U.S. mill consumption (in billion pounds) by generic fiber type for the twelve-year period 1970-1981. A comparison of 1981 with 1980 shows that only olefin, textile glass and wool increased their level of consumption while rayon and polyester usage remained unchanged. Mill consumption of acetate, nylon, acrylic and cotton all registered declines.

Polyester surpassed cotton as the most widely used textile fiber in 1977, after equaling cotton usage in 1975. In 1981, polyester was the most widely used fiber, followed by cotton and nylon. Together, these three fibers represent some 72% of mill usage of all fibers.

MILL CONSUMPTION BY FIBER
BILLION POUNDS

YEAR	RAYON	ACE- TATE ^a	NY- LON ^b	ES- TER ^c	ACRY- LIC ^d	OLE- FIN	GLASS	COT- TON	WOOL	TOTAL
1970	0.9	0.5	1.3	1.6	0.5	0.2	0.4	3.8	0.3	9.5
1971	1.0	0.5	1.7	2.0	0.5	0.3	0.5	4.0	0.2	10.7
1972	1.0	0.4	2.1	2.5	0.6	0.4	0.6	3.9	0.2	11.7
1973	1.0	0.4	2.3	3.1	0.7	0.5	0.7	3.6	0.2	12.5
1974	0.8	0.3	2.0	2.9	0.6	0.5	0.6	3.3	0.1	11.1
1975	0.5	0.3	2.0	3.1	0.5	0.5	0.5	3.1	0.1	10.6
1976	0.6	0.3	2.1	3.3	0.6	0.5	0.7	3.4	0.1	11.6
1977	0.6	0.3	2.3	3.6	0.7	0.6	0.8	3.2	0.1	12.2
1978	0.6	0.3	2.5	3.7	0.6	0.7	0.9	3.0	0.1	12.4
1979	0.5	0.3	2.7	3.8	0.6	0.7	0.9	3.1	0.1	12.7
1980	0.5	0.3	2.3	3.5	0.6	0.7	0.9	3.1	0.1	12.0
1981	0.5	0.2	2.2	3.5	0.7	0.8	1.0	2.7	0.2	11.6

a. Acetate includes triacetate. Cigarette tow is excluded.

b. Nylon includes aramid.

c. Ester means polyester.

d. Acrylic includes modacrylic.

DOMESTIC CONSUMPTION - METHOD

The domestic consumption of cotton, wool and the man-made fibers is calculated by adjusting mill consumption for the net imports or exports of semimanufactured goods (yarn, thread, cloth, etc.) and manufactured goods (wearing apparel, carpets, draperies, etc.).

The import-export trade data for such items as tire cord, plied yarns, spun yarns and such are already available in pounds. But with products such as shirts, sweaters, hosiery, certain piece goods, etc., the import-export data of which are reported in yards, dozens, etc., appropriate conversion factors must be applied to obtain the poundage equivalents.

The U.S. Department of Agriculture makes studies of these import and export conversion factors based on special surveys made in conjunction with the Census Bureau. These factors are then applied to Census import-export data to yield the poundage data shown in columns 29-30, 32-33, 35-36 and 38-39 in the Domestic Consumption section of the page 44 table.

For these import and export calculations, the U.S. Department of Agriculture has added certain waste factors to the derived poundages, so as to bring them to the same raw fiber basis used in the Mill Consumption section of the page 44 table.

Details of the raw fiber equivalent of the imports and exports of man-made fiber, cotton and wool semimanufactures and manufactures are presented in the table on page 45 as annual averages for the 5 years 1970-1974 and 1975-1979, as well as for the single years 1977 through 1981. The table on page 46 presents a more detailed breakdown of these data for the years 1976-1981.

Note that the domestic consumption of man-made fibers is overstated to the extent that exports of throwster-textured yarn are included. When a shipment of feed yarn is made to a throwster, it is recorded as a domestic shipment and included in mill consumption. However, textured yarn exports are considered fiber exports rather than semimanufactured exports by the U.S. Department of Agriculture. Census data do not distinguish between producer-textured yarn exports (not a domestic shipment and thus not included in mill consumption) and throwster-textured yarn exports. Thus domestic consumption is overstated by this difference (total textured yarn exports less producer-textured yarn exports).

DOMESTIC CONSUMPTION INCREASED 1½% IN 1981

Due to record imports of semimanufactured and manufactured products, and a decline in the exports of these products, U.S. domestic consumption of fibers increased 1½% in 1981, to 12,255.5 million pounds. See the table opposite for more detail on imports as a percentage of

IMPORTS AS PERCENT OF DOMESTIC CONSUMPTION

YEAR	MAN-MADE FIBERS			COTTON			WOOL			TOTAL		
	DOM. CONS.	IMPORT	%	DOM. CONS.	IMPORT	%	DOM. CONS.	IMPORT	%	DOM. CONS.	IMPORT	%
1970	5,683.1	329.3	5.8	4,037.5	463.1	11.5	354.3	85.9	24.2	10,074.9	878.3	8.7
1971	6,833.6	451.1	6.6	4,231.3	492.6	11.6	276.1	66.2	24.0	11,341.0	1,009.9	8.9
1972	7,868.6	480.5	6.1	4,170.1	510.7	12.2	279.3	63.0	22.6	12,318.0	1,154.2	9.4
1973	8,841.3	465.3	5.3	3,881.6	563.5	14.5	212.6	61.5	28.8	12,935.5	1,090.1	8.4
1974	7,678.6	371.3	4.8	3,416.3	502.7	14.7	146.8	53.3	36.3	11,241.7	927.3	8.2
1975	7,094.5	400.4	5.3	3,216.3	501.3	15.6	161.4	48.6	30.1	10,872.2	950.3	8.7
1976	8,179.8	479.5	5.9	3,084.4	708.6	22.9	198.7	66.7	33.6	12,062.9	1,254.8	10.4
1977	9,050.6	530.7	5.9	3,409.7	669.4	19.3	208.3	85.9	41.2	12,728.6	1,286.0	10.1
1978	9,428.6	642.6	6.8	3,540.1	845.4	23.9	222.2	92.2	41.5	13,190.9	1,580.2	12.0
1979	9,374.4	525.0	5.6	3,334.5	746.1	22.4	201.0	80.6	40.1	12,909.9	1,351.7	10.5
1980	8,529.2	540.6	6.3	3,352.2	810.9	24.2	199.1	85.1	42.7	12,080.5	1,346.6	11.1
1981	8,723.9	639.1	7.3	3,297.6	961.9	29.2	234.0	93.1	39.8	12,255.5	1,694.1	13.8

domestic consumption. The 1981 total was made up of 8,723.9 million pounds of man-made fibers, 3,297.6 million pounds of cotton and 234.0 million pounds of wool.

Domestic consumption of cotton fell 1½% in 1981, to 3,297.6 million pounds. Thus, record imports of 961.9 million pounds of semimanufactured and manufactured products almost offset the 12% decline in U.S. mill consumption of cotton. Domestic consumption of wool last year was 18% above 1980's level and at its highest level since 1972.

1981 domestic consumption of man-made fibers totaled 8,723.9 million pounds, 2½% more than the 8,529.2 million pounds used the previous year. Again, increased imports of semimanufactured and manufactured products (second only to 1978's total of 642.6 million pounds) and a decline from the record exports of 1980 during 1981 led to an increase in domestic consumption.

DOMESTIC CONSUMPTION EXAMINED

The small text table shows the 3-fiber (cotton+wool+man-made) mill consumption, the imports and exports of semimanufactured and manufactured products and their export balance (-) or import balance (+) and the net domestic consumption for selected years, as drawn from the page 44 table.

MILLION POUNDS	1976	1977	1978	1979	1980	1981
MILL CONSUMPTION	11,587	12,191	12,410	12,647	11,962	11,578
IMPORTS	1,255	1,286	1,580	1,352	1,437	1,694
EXPORTS	779	748	809	1,089	1,318	1,017
IMPORT BALANCE	+476	+538	+771	+263	+119	+677
DOMESTIC CONS.	12,063	12,729	13,181	12,910	12,081	12,255

AVERAGE ANNUAL FIBER AVAILABLE FOR CONSUMPTION - POUNDS

PERIOD ^a	POPULATION	PER CAPITA			
		MAN-MADE FIBER	COTTON	WOOL	TOTAL
1920-1924	110.2	6.2	23.8	4.0	28.0
1925-1929	118.9	6.7	26.0	3.6	30.3
1930-1934	124.9	7.4	20.5	2.6	24.5
1935-1939	129.1	7.7	24.9	3.4	31.0
1940-1944	135.1	8.7	35.1	4.5	44.3
1945-1949	144.2	6.6	28.0	4.8	39.4
1950-1954	157.6	9.0	26.9	3.8	39.7
1955-1959	171.9	10.3	23.7	3.0	37.0
1960-1964	186.4	12.9	22.6	3.0	38.5
1965-1969	198.6	22.9	23.0	2.8	48.4
1970-1974	209.7	35.1	18.9	1.2	55.2
1975-1979	220.4	39.5	15.6	0.9	56.0
1965	194.2	18.5	23.9	2.9	45.1
1966	196.5	20.2	25.1	2.7	48.0
1967	198.7	21.4	23.5	2.2	47.1
1968	200.7	26.7	21.9	2.4	51.0
1969	202.7	27.9	20.9	2.2	51.0
1970	205.1	27.7	19.7	1.7	49.1
1971	207.7	32.9	20.4	1.3	54.6
1972	209.9	37.5	19.9	1.3	58.7
1973	211.9	41.7	18.3	1.0	61.0
1974	214.9	35.9	16.0	0.7	52.6
1975	216.0	34.7	14.9	0.7	50.3
1976	218.0	37.5	16.9	0.9	55.3
1977	220.2	41.1	15.8	0.9	57.8
1978	222.6	42.4	15.8	1.0	59.2
1979	225.1	41.6	14.8	0.9	57.3
1980	227.7	37.5	14.7	0.9	53.1
1981	229.8	38.0	14.3	1.0	53.3

a. Five year averages for 1920-1979 and annual data for 1965-1981.

Column 41. U.S. population as of July first, 1950 forward data include Alaska and Hawaii. Puerto Rico is excluded.

Columns 42 to 45. Columns 31, 34, 37 and 40 respectively on page 44 herewith divided by column 41.

The table below shows the percentage of domestic consumption (at 100%) accounted for by mill consumption and by the imports, exports, net imports (+) and net exports (-) of semimanufactured and manufactured products for selected years.

PERCENT		MILL CONS	IMP	EXP	NET IMP	DOM CONS
MAN-MADE FIBER	1976	98	+6	-4	+2	100
	1977	98	+6	-4	+2	100
	1978	98	+7	-5	+2	100
	1979	101	+5	-6	-1	100
	1980	103	+6	-9	-3	100
	1981	100	+7	-7	0	100
COTTON	1976	92	+19	11	+8	100
	1977	91	+19	10	+9	100
	1978	86	+24	10	+14	100
	1979	92	+22	14	+8	100
	1980	91	+24	15	+9	100
	1981	82	+29	11	+18	100
WOOL	1976	73	+34	-7	+27	100
	1977	64	+41	-5	+36	100
	1978	64	+41	-5	+36	100
	1979	67	+40	-7	+33	100
	1980	68	+44	12	+32	100
	1981	65	+40	-5	+35	100
TOTAL FIBERS ABOVE	1976	96	+10	-6	+4	100
	1977	96	+10	-6	+4	100
	1978	94	+12	-6	+6	100
	1979	98	+10	-8	+2	100
	1980	99	+12	11	+1	100
	1981	94	+14	-8	+6	100

IMPORTS AS PERCENT OF DOMESTIC CONSUMPTION

The table on page 51, derived from the domestic consumption section of the page 44 table, details the market share of imports of semimanufactured and manufactured goods for selected years.

Although man-made fiber imports of these products have increased, their market share has remained fairly constant at around 6%, except for 1981 when it jumped to almost 7½%. Over the eleven-year span 1970-1981, domestic consumption of man-made fibers grew at a 4.0% compound annual growth rate while imports of man-made products grew at an annual compound growth rate of 6.2%. Thus, imports, which represented 5.8% of domestic consumption in 1970, now represent 7.3%.

The growth in import penetration is most dramatically shown in the case of the natural fibers, with cotton almost tripling and wool almost doubling their share between 1970 and 1981. In 1981, imports of cotton products accounted for over 29% of domestic consumption as compared with just over 11% in 1970. For wool, the market share penetration was not as steep, rising from 24% in 1970 to almost 40% in 1981.

Imports of cotton and wool products occurred even though domestic consumption of these products was declining. Domestic consumption of cotton during the 1970-1981 period fell at an annual rate of 1.8%, while im-

ports of cotton products grew at a 6.9% annual rate. Thus, U.S. mills' share of the domestic consumption of cotton fell at an annual rate of 3.8% over this period, to only 71% of the domestic cotton market in 1981.

In the case of wool, where imports have historically been higher, imports grew from 24% of domestic consumption in 1970 to almost 40% in 1981. This growth has been more the result of declining U.S. mill consumption of wool rather than increasing imports. Over the eleven-year period 1970-1981, imports of wool products grew at an annual compound rate of under 1%. In the meantime, that portion of domestic consumption accounted for by U.S. mills fell at an annual rate of 5.7%.

U.S. IMPORT BALANCE OF MANUFACTURES INCREASED BY 473%

The table on page 46 details the imports, exports and balance of man-made fiber, cotton and wool manufactures. For 1981, the import balance of these fibers totaled 677.3 million pounds, a 473% increase over 1980. The 1981 import balance was 12% less than the record import balance of 771.2 million pounds set in 1978.

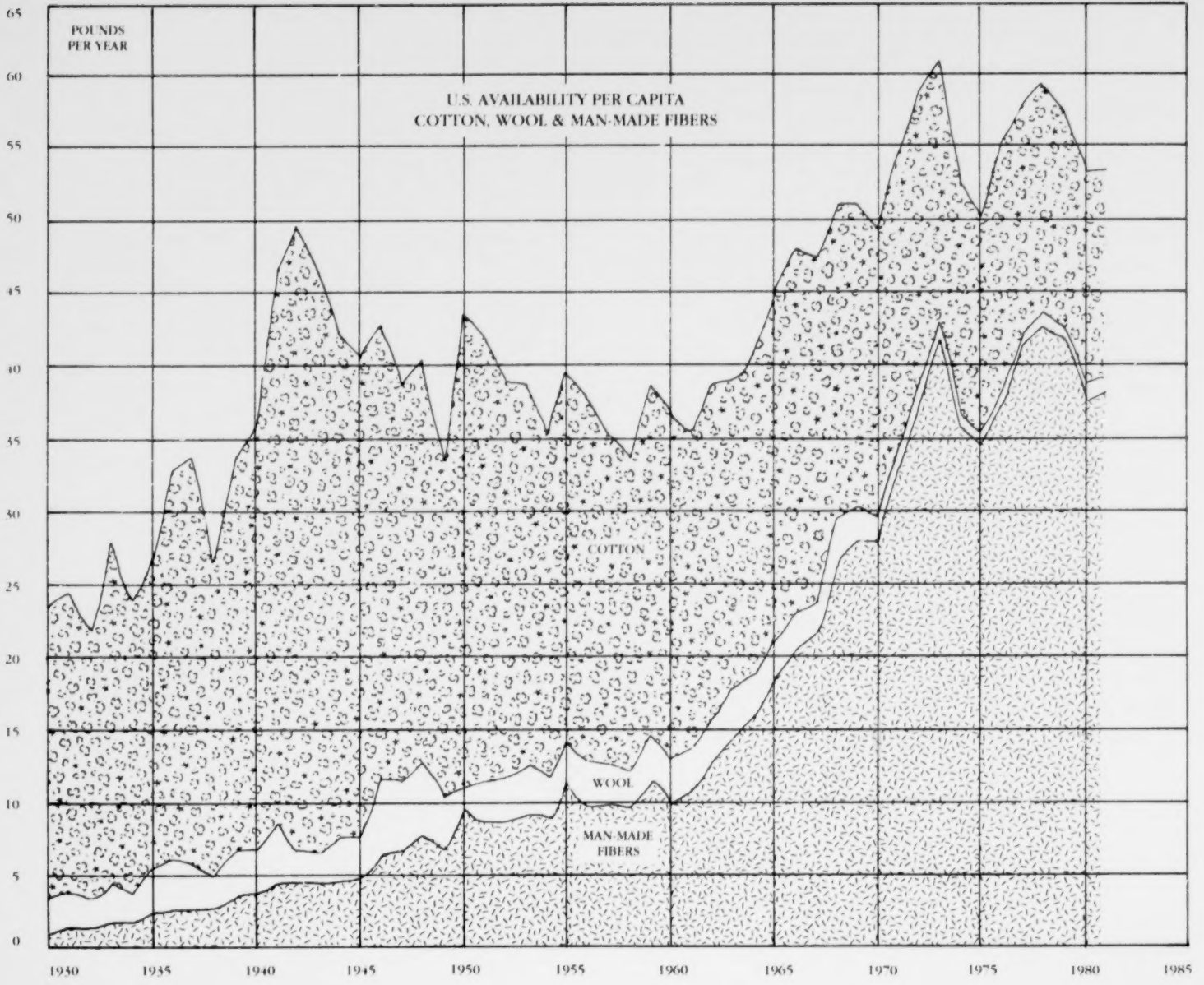
Imports of cotton manufactures totaled a record 961.9 million pounds, 19% above the 810.9 million pounds imported in 1980. Exports of cotton manufactures declined 30% in 1981 to a total of 367.3 million pounds. Thus the increase in imports and decline in exports of manufactures led to a record import balance of 594.6 million pounds for cotton manufactures in 1981. This was double the 1980 import balance of 287.8 million pounds and was 21% above the previous record import balance of 489.7 million pounds recorded in 1978.

In 1981, man-made fiber manufactures recorded a slight import balance of 1.4 million pounds, reversing two years of export balances. This import balance resulted from an 18% increase in imports, to a near record 639.1 million pounds, and a decline in exports of 17% to 637.7 million pounds.

UTILITY POUNDAGE

The greater use of man-made fibers, with their high utility value per pound as compared with cotton and wool, has had the effect of reducing the overall per capita poundage series. Put another way, if all the products currently made of man-made fibers were produced from cotton or wool, larger poundages of fiber would be required.

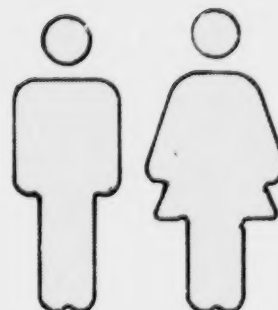
Utility poundage takes into account (1) differences in processing losses between the various fibers, (2) differences in fabric weights or "covering power," (3) variations in the useful life of products made from individual fibers or blends thereof and (4) consumers' premature discarding of textile products because of appearance and/or style obsolescence.



1981 PER CAPITA CONSUMPTION OF TEXTILE FIBERS



MAN-MADE FIBERS
38.0 lbs/person



COTTON
14.3 lbs/person



WOOL
1 lb/person

PER CAPITA AVAILABILITY

The table on page 51 details the availability per capita of man-made fibers, cotton and wool in the United States. The 1981 total of 53.3 pounds per person was $\frac{1}{2}\%$ above the 1980 total of 53.1 pounds per person. Note that the 1970-1980 series has been revised in line with the 1980 census count. The chart on page 53 details per capita availability for the years 1930-1981.

Per capita availability of man-made fibers increased $1\frac{1}{2}\%$ in 1981, to 38.0 pounds per person. Wool availability increased 11%, to 1.0 pounds per person, while cotton availability declined $2\frac{1}{2}\%$ to 14.3 pounds per person. The diagram on page 54 illustrates the amount of man-made fiber, cotton and wool available per person.

The per capita series is obtained by dividing domestic consumption by the resident population each year.

RAW COTTON AND SILK DELIVERIES

The two tables following detail monthly shipments of raw cotton and silk (in bales) for the most recent years. The monthly shipments of cotton (in bales) are not adjusted to the calendar month as are the monthly shipments in pounds. See page 43 herewith.

RAW COTTON CONSUMPTION
THOUSAND BALES

MONTH	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
JAN	665	687	655	651	627	509	493	693	604	655
FEB	714	597	592	495	559	528	501	472	506	446
MAR	711	661	644	458	655	654	620	506	513	549
APR	620	632	610	662	596	507	484	584	622	453
MAY	721	637	633	501	579	507	484	484	496	441
JUN	678	694	546	494	610	616	575	489	478	541
JUL	518	504	535	485	489	495	483	503	487	485
AUG	646	636	562	531	550	494	459	472	442	429
SEP	631	543	489	548	556	606	569	482	456	517
OCT	652	649	529	629	554	835	482	630	597	448
NOV	650	620	452	604	527	50	595	482	458	403
DEC	575	569	390	624	541	562	455	456	475	400
TOTAL	7779	7279	6617	6142	6833	6717	6080	6143	6134	5407

RAW SILK DELIVERIES
BALES

MONTH	1972*	1973	1974	1975	1976	1977	1978	1979	1980	1981
JAN	233	556	124	190	925	352	421	501	312	471
FEB	184	355	395	188	469	249	394	302	644	380
MAR	308	450	233	410	989	242	424	687	422	471
APR	198	499	277	493	362	212	382	353	507	446
MAY	141	393	175	494	251	254	397	471	366	322
JUN	195	179	288	219	579	259	299	418	285	529
JUL	182	577	269	380	337	322	316	407	257	300
AUG	445	214	139	219	358	311	341	756	342	259
SEP	529	71	97	505	422	370	401	492	342	348
OCT	209	93	392	585	268	424	280	490	365	414
NOV	229	105	151	225	222	322	468	368	265	487
DEC	315	486	96	641	159	435	214	518	325	611
NET	3166	NA	NA	NA	NA	NA	NA	NA	NA	NA
REEXP	715	NA	NA	NA	NA	NA	NA	NA	NA	NA
GROSS	3881	3678	2456	4349	5041	3740	4237	5763	4420	5038

*Monthly data exclude re-exports

SHIPMENTS BY PRIMARY TRADE OR END USE

The tables on pages 56 and 57 detail producer shipments of yarn+monofilaments and staple+tow by primary trade or end use. The 1981 total of 7,413.7 million pounds was 3% below the 1980 total of 7,656.4 million pounds. Filament yarn+monofilament shipments fell $2\frac{1}{2}\%$ to 3,688.9 million pounds in 1981 and staple+tow shipments fell 4% to 3,724.8 million pounds.

Although shipments of filament yarn+monofilaments were down $2\frac{1}{2}\%$ in 1981, shipments of polyester yarn increased 5%, to 1,430.0 million pounds, and those of olefin yarn (including film fiber) increased $2\frac{1}{2}\%$ to a record 628.3 million pounds. Deliveries of nylon filament yarn declined $8\frac{1}{2}\%$ in 1981, to 1,404.3 million pounds, and acetate yarn deliveries fell by 16%, to 226.3 million pounds.

Shipments of nylon filament yarn to the hosiery trades increased marginally to 107.0 million pounds in 1981. Deliveries of nylon yarn to the narrow woven trades increased $8\frac{1}{2}\%$ to 34.0 million pounds and shipments to other rubber industries increased 15%, to 25.7 million pounds. Shipments of nylon yarn to all other trades fell, with shipments to the carpet trades declining 11%, to 633.6 million pounds. Shipments of nylon yarn to the circular knit trades fell 15% (to 48.2 million pounds) and those to the flat knit trades fell $7\frac{1}{2}\%$, to 163.2 million pounds.

The biggest improvement in the shipment of polyester filament yarn (poundagewise) was to the broad woven goods area, where they increased $8\frac{1}{2}\%$ in 1981, to 440.2 million pounds. Deliveries to the flat knit trades increased 17% (to 98.4 million pounds) whereas shipments to the circular knit trades (mainly double knits) declined 30%, to 345.6 million pounds. This continues the trend of declining shipments of polyester filament yarn to the circular knit trades since deliveries peaked at 881.1 million pounds in 1975. Shipments of polyester yarn to the tire industry in 1981 increased $8\frac{1}{2}\%$ to 174.8 million pounds.

Only rayon staple+tow (up $1\frac{1}{2}\%$) and olefin+vinylon staple+tow (up 15% to a record 132.0 million pounds) increased their shipments to the primary domestic trades. Shipments of nylon staple+tow to these trades fell 2% (to 696.4 million pounds), acrylic+modacrylic fell 16% (to 494.1 million pounds) and polyester deliveries fell 3%, to 2,005.4 million pounds.

Shipments of nylon staple+tow to the carpet trades, which represent about 90% of all nylon staple shipments, declined in 1981 by 2%, to 617.4 million pounds. The other major use of nylon staple, broad woven goods, consumed 52.4 million pounds in 1981, a 1% decline from 1980.

FILAMENT YARN DOMESTIC SHIPMENTS^a

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA								
		1978	1979	1980	1981	1980				1981				
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	
		(A) ACETATE	(N) NYLON+ARAMID	(P) POLYESTER	(O) OLEFIN									
HOSIERY ^b	N	99.0	106.3	106.3	107.0	27.2	26.7	25.3	27.1	27.2	27.2	27.7	24.9	
OTHER CIRCULAR KNIT ^c	N	65.5	58.9	56.6	48.2	14.3	13.0	13.2	16.1	12.3	13.6	11.4	10.9	
	P	635.5	615.4	495.7	345.6	145.8	108.7	114.4	126.8	95.4	97.3	83.9	69.0	
	A	1.9	4.5	3.2	4.8	1.0	0.8	0.7	0.7	0.9	2.1	1.3	0.5	
FLAT KNIT	A	138.3	146.9	144.9	104.7	37.4	40.0	35.9	31.6	27.6	37.2	23.5	16.4	
	N	196.1	202.6	176.3	163.2	50.3	42.3	35.2	48.5	43.3	44.5	37.6	37.8	
	P	81.7	89.0	83.8	98.4	23.2	17.7	19.8	23.1	25.7	25.1	25.1	22.5	
CARPET FACE	N	677.8	732.5	714.5	633.6	183.5	157.5	169.3	204.2	184.0	186.9	146.6	116.1	
	O	78.9	85.3	89.5	89.5	24.3	20.9	20.4	23.9	21.5	22.7	22.0	23.3	
	C	213.7	220.7	197.8	195.3	52.5	44.4	49.7	51.2	52.7	49.9	48.0	44.7	
CARPET BACKING ^d	A	125.9	129.2	110.5	104.7	32.7	27.4	25.6	24.8	22.8	27.7	29.6	24.6	
	N	95.0	102.7	94.3	89.2	26.9	25.9	18.7	22.8	22.0	21.9	21.6	23.7	
	P	411.5	387.2	405.5	440.2	102.9	97.1	96.6	108.9	100.8	138.4	115.6	85.4	
OTHER BROAD WOVEN ^e	O	158.7	171.4	186.3	200.7	42.6	43.3	47.1	53.3	50.3	50.3	51.5	48.6	
	A	7.0	5.9	8.7	8.5	1.5	3.2	2.0	2.0	1.5	2.2	2.2	2.6	
	N	40.6	37.2	31.4	34.0	9.3	7.3	7.6	7.2	9.1	7.1	9.2	8.6	
TIRES, INCL. CHAFFER	P	29.1	30.5	28.1	28.1	8.1	5.6	7.4	7.0	6.4	7.5	7.3	6.9	
	O	11.1	11.8	12.3	12.6	3.2	3.0	3.1	3.0	3.2	3.2	3.1	3.1	
	N	267.6	285.3	209.2	204.7	69.4	40.2	45.1	54.5	51.5	52.7	52.6	47.9	
OTHER RUBBER INDUSTRY ^g	P	253.4	227.4	161.0	174.8	45.6	31.2	37.0	47.2	43.3	44.1	46.6	40.8	
	N	25.7	28.7	22.3	25.7	6.1	4.9	4.8	6.5	7.2	6.4	5.5	6.6	
	P	32.0	35.8	30.2	35.1	10.0	6.1	6.7	7.4	7.4	8.1	9.5	10.1	
ROPE, CORDAGE & FISHLINE	N	33.4	38.2	33.0	30.6	9.6	7.6	7.7	8.1	8.2	7.9	8.2	6.3	
	P	10.6	13.6	13.1	15.8	3.0	3.6	3.0	3.5	4.0	3.7	3.7	3.8	
	O	82.4	95.3	84.4	92.1	20.7	23.4	18.8	21.5	28.5	22.9	18.9	21.8	
ALL OTHER ^h	A	1.5	1.9	1.9	3.6	0.3	0.5	0.5	0.6	0.6	0.7	1.0	1.3	
	N	44.7	38.9	95.0	38.1	19.4	25.5	20.8	29.3	15.7	17.9	20.0	14.5	
	P	53.8	126.2	146.0	292.0	30.6	40.7	35.5	39.2	70.5	68.3	73.1	80.1	
	O	34.9	39.7	41.4	38.1	13.6	8.9	8.2	10.7	8.1	9.6	11.5	8.9	
TOTAL DOMESTIC ABOVE														
		A	274.6	288.4	269.2	226.3	72.9	71.9	64.7	59.7	53.4	69.9	57.6	45.4
		N	1549.1	1631.3	1538.9	1404.3	416.0	350.9	347.7	424.3	380.5	386.1	340.4	297.3
		P	1507.6	1525.1	1363.4	1430.0	369.2	310.7	320.4	363.1	354.1	392.5	364.8	318.6
		O	579.7	624.2	611.7	628.3	156.9	143.9	147.3	163.6	164.3	158.6	155.0	150.4
TOTAL DOMESTIC ABOVE			3901.0	4069.0	3783.2	3688.9	1015.0	877.4	880.1	1010.7	952.3	1007.1	917.8	811.7
ALSO DIVIDED AS														
APPAREL			1671.2	1604.5	1530.4	1533.6	407.9	354.3	365.1	403.1	388.4	437.9	378.5	328.8
HOME FURNISHINGS			1171.9	1274.6	1212.7	1128.7	318.6	274.0	285.5	334.6	308.6	313.3	273.3	233.5
INDUSTRIAL			1057.9	1189.9	1040.1	1026.6	288.5	249.1	229.5	273.0	255.3	255.9	266.0	249.4
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) ⁱ														
ACETATE			1.3	-	0	0	0	0	0	0	0	0	0	0
NYLON			161.6	166.8	167.4	149.9	40.4	41.6	39.4	46.0	39.0	39.8	36.5	34.6
POLYESTER			1018.7	1015.3	942.0	991.3	249.1	216.4	225.0	251.5	248.3	277.5	251.0	214.5
OLEFIN			52.3	46.5	40.9	33.5	11.0	9.0	8.1	12.8	9.7	8.9	8.4	6.5

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only.

i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

i. These poundages are included in the Total Domestic area above.

Deliveries of acrylic+modacrylic to the hosiery, sweater and craft yarn trades declined 7½%, to 255.6 million pounds, in 1981. Shipments to all other detailed trades also declined with those to the pile fabric trades falling 26% (to 44.7 million pounds), to the knit trades down

27% (to 91.6 million pounds) and to blankets declining 33%, to 28.1 million pounds.

Shipments of polyester staple+tow to the broad woven trades declined 7½% in 1981, to 1,107.0 million pounds. However, shipments to the knit trades in-

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
		1978	1979	1980	1981	1980				1981			
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(R) RAYON	(N) NYLON+ARAMID	(A) ACRYLIC+MODACRYLIC	(P) POLYESTER	(O) OLEFIN							
HOSIERY, SWEATERS & CRAFT YARNS ^a	A	241.8	238.8	275.7	255.6	75.8	71.9	56.2	71.8	65.2	70.6	67.2	54.6
	MPR	15.0	21.3	11.5	8.9	4.1	3.3	1.9	2.2	2.2	1.9	2.3	2.5
PILE FABRICS ^b	A	82.4	65.1	60.4	44.7	17.5	18.7	11.7	12.5	14.8	14.3	8.8	6.8
	P	15.1	17.8	18.3	14.9	5.1	4.9	4.1	4.2	3.6	4.5	3.5	3.3
OTHER CIRCULAR+FLAT KNIT ^c	R	10.8	11.7	9.8	10.9	3.8	1.8	2.4	1.8	2.7	3.3	2.6	2.3
	A	93.1	98.8	125.0	91.6	34.8	35.1	27.1	28.0	24.0	26.2	23.3	18.1
BLANKETS ^b	P	223.7	278.1	296.3	300.7	83.9	71.1	62.3	79.0	77.7	78.7	78.2	66.1
	A	55.2	45.5	42.2	28.1	10.7	11.0	11.9	8.6	7.6	6.2	6.4	7.9
OTHER BROAD WOVEN	P	14.9	13.2	17.3	14.8	4.2	4.4	4.5	4.2	3.2	4.1	3.1	4.4
	R	245.9	233.2	201.6	224.7	57.0	43.7	48.0	52.9	56.5	58.2	57.6	52.4
	N	52.6	59.2	53.0	52.4	15.6	9.9	10.2	17.3	12.4	14.2	13.2	12.6
	A	28.6	42.1	42.3	33.0	11.3	10.3	9.1	11.6	10.0	8.5	7.1	7.4
	P	1114.7	1171.0	1194.6	1107.0	321.1	282.2	267.5	323.8	269.9	290.8	284.2	262.1
	O	10.6	17.0	17.3	17.1	4.0	4.3	3.7	5.3	5.0	5.7	2.9	3.5
CARPET FACE YARNS	R	*	*	*	0.3	*	*	*	*	*	*	0.2	0.1
	N	798.5	828.0	631.5	617.4	149.4	115.8	171.3	195.0	185.7	192.7	136.3	102.7
	A	62.8	48.1			Included in All Other							
	P	200.8	192.4	119.9	124.0	32.2	25.1	23.9	38.7	27.0	37.6	29.2	30.2
FIBERFILL ^d	O	46.0	64.7	61.6	67.5	14.9	14.7	14.6	17.4	16.1	17.7	17.3	16.4
	P	198.2	239.6	205.1	226.7	55.5	44.6	52.7	52.3	57.1	54.0	59.0	56.6
FLOCK	NP	8.2	10.7	10.8	13.0	3.4	2.5	2.1	2.8	3.8	4.2	2.7	2.3
	R	4.7	5.1	5.1	5.6	1.2	1.4	1.1	1.4	0.8	1.3	2.3	1.2
NONWOVENS ^{ef}	R	166.2	160.3	147.3	124.6	45.1	39.0	29.6	33.6	32.6	34.9	29.3	27.8
	N	4.1	3.8	3.2	3.5	0.9	0.7	0.8	0.8	1.1	1.0	0.8	0.6
	P	98.5	153.6	166.6	149.3	43.0	39.9	41.3	42.4	36.1	37.8	35.8	39.6
	VINYLON+O	28.6	36.7	34.6	42.7	9.4	7.1	8.4	9.7	9.6	11.3	11.1	10.7
ALL OTHER	R	29.5	30.9	26.2	29.1	7.0	6.6	6.1	6.5	7.1	6.5	8.4	7.1
	N	11.1	10.8	12.2	10.3	2.6	4.1	2.9	2.6	2.3	3.8	2.2	2.0
	A	7.7	8.2	39.7	41.1	11.5	8.7	8.9	10.6	10.6	11.2	10.7	8.6
	P	80.7	49.3	42.6	60.6	14.1	8.6	9.0	10.9	16.4	16.8	12.7	14.7
	VINYLON+O	4.8	0.9	1.5	4.7	0.6	0.2	0.3	0.4	1.2	0.8	0.9	1.8
TOTAL DOMESTIC ABOVE	R	459.2	442.4	390.7	396.9	114.2	92.6	87.3	96.6	100.2	104.5	100.7	91.5
	N	876.4	913.2	711.2	696.4	171.9	133.2	187.6	218.5	204.8	215.9	155.4	120.3
	A	571.6	546.6	585.3	494.1	161.6	155.7	124.9	143.1	130.2	137.0	123.5	103.4
	P	1967.5	2134.4	2071.0	2005.4	563.1	483.8	466.8	557.3	493.2	525.9	507.5	478.8
	VINYLON+O	90.0	119.3	115.0	132.0	28.9	26.3	27.0	32.8	31.9	35.5	32.2	32.4
TOTAL DOMESTIC ABOVE		3964.7	4155.9	3873.2	3724.8	1039.7	891.6	893.6	1048.3	960.3	1018.8	919.3	826.4
ALSO DIVIDED AS:													
APPAREL		1493.4	1548.6	1632.9	1487.5	453.6	402.2	352.4	424.7	366.0	397.9	386.8	336.8
HOME FURNISHINGS		1714.8	1759.1	1478.0	1442.9	375.1	311.9	362.2	428.8	394.7	415.9	354.0	298.3
INDUSTRIAL		756.5	848.2	762.3	794.4	211.0	177.5	179.0	194.8	199.6	205.0	198.5	191.3

a. Olefin poundages are included in All Other.

b. Rayon and nylon poundages are included in All Other.

c. Nylon poundages are included in All Other.

d. Rayon and acrylic poundages are included in All Other.

e. Wet & dry laid and needled batts only.

f. Acrylic poundages are included in All Other.

creased 1½% (to 300.7 million pounds), those of the carpet trades increased 3½% (to 124.0 million pounds) and those to fiberfill increased 11%, to 226.7 million pounds. After increasing steadily over the past few years, shipments of polyester staple+tow to the nonwoven trades declined 10% last year, to 149.3 million pounds.

Drawing together the yarn and staple data from the tables on pages 56 and 57, the distribution between these three market segments is as follows (million pounds).

	1977	1978	1979	1980	1981
Apparel	3186	3165	3153	3163	3021
Home Furnishings	2693	2887	3034	2691	2572
Industrial	1645	1814	2038	1802	1821
	7524	7866	8225	7656	7414

TEXTILE MILL PRODUCTS (SIC 22): TRENDS AND PROJECTIONS 1972-81

(IN MILLIONS OF DOLLARS EXCEPT AS NOTED)

ITEM	1972	1977	1978	1979	1980 ^a	1981 ^b	COMPOUND ANNUAL RATE OF GROWTH 1972-81
INDUSTRY DATA							
VALUE OF SHIPMENTS ^c	27,852	46,640	49,170	52,660	54,093	56,634	8.2
VALUE OF SHIPMENTS (1972=\$) ^c	27,852	31,840	33,890	33,850	32,165	30,401	1.0
TOTAL EMPLOYMENT (000)	952.8	875.7	861.8	842.3	808.6	792.4	2.0
PRODUCTION WORKERS (000)	836.0	764.7	752.6	732.4	704.3	695.6	2.0
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS	2.75	3.99	4.30	4.66	5.08	5.52	8.0
CAPITAL EXPENDITURES	1,124	1,223	1,356	1,329	1,431	1,420	2.6
PRODUCT DATA							
PRODUCT PRICE INDEX (1977=100)	N.A.	100.0	102.0	106.8	116.5	127.8	—
TRADE							
VALUE OF EXPORTS	638	1,857	2,073	3,029	3,458	3,717	22.0
VALUE OF IMPORTS	1,379	1,765	2,212	2,214	2,475	2,924	8.7
EXPORT-SHIPMENTS RATIO	0.023	0.040	0.042	0.057	0.063	0.066	—
IMPORT-NEW SUPPLY RATIO ^d	0.047	0.037	0.043	0.040	0.043	0.049	—

SOURCE: 1982 U.S. Industrial Outlook by the Department of Commerce.

a. Estimated except for product price index, exports and imports.

b. Estimated.

c. Value of all products and services sold by the textile mill industry.

d. New supply is the sum of industry shipments plus imports.

TEXTILE TRENDS

The U.S. Department of Commerce has just published a booklet entitled *1982 U.S. Industrial Outlook* from which the tables on pages 58 and 59 are abstracted. This publication provides a 10-year history of the textile industry, both by an overview and by individual segment. However, due to ongoing bilateral trade negotiations in the textile trade, no five-year forecasts are given for textile products, as are proposed for many other industries.

The following text table compares the 1979 data of report with those published by the Man-Made Fiber Producers Association, Inc. (MMFPA) in its latest *Fact Book* and statistical *Update*.

	1979	
	Commerce	MMFPA
Fiber Sales (million \$)	7,808	8,490
Employment	87,800	89,000
Investments (million \$)	424	500

In the 1981 annual report of the MMFPA, 1980 fiber sales are put at \$8.6 billion. This compares with the U.S. Department of Commerce estimate of \$8,338 million.

BOOK REVIEW

MAN-MADE FIBERS - A NEW GUIDE

Man-Made Fiber Producers Association, Inc., 1150 Seventeenth Street, N.W., Washington, DC 20036. 16 pages. 1982.

The Man-Made Fiber Producers Association has just released *Man-Made Fibers - A New Guide*, superceding *Guide to Man-Made Fibers*.

This booklet explains how man-made fibers are

made, their trademarks and many of their uses, including such unique ones as false eyelids and bulletproof vests.

Also included is a brief history of the industry and a quick guide to uses and characteristics of generic fibers. Looking to the future, the challenges of imports and conserving energy are discussed.

For a free copy, write to: Guide, Suite 310, 1150 Seventeenth Street, N.W., Washington, DC 20036.

U.S. HOSIERY PRODUCTION

Production of all types of hosiery by U.S. manufacturers in 1980 totaled 280.3 million dozen pairs, 5% less than the record 294.5 million dozen pairs produced in 1979. Annual production data are presented in the table on page 60 as taken from the 47th Annual Report of the National Association of Hosiery Manufacturers. The full report is available from the Association, 516 Charlotte-town Mall, Box 4098, Charlotte, NC 28204, for \$35.00.

Other sections of the report show monthly and annual production, monthly and annual shipments, per capita consumption data, end-of-year stock and fiber content of hosiery by type. For the period January through April 1980, total hosiery production on a fiber basis was cotton 14%, other natural fibers 2%, acrylic+modacrylic 21%, nylon 62% and polyester 1%.

Also tabulated are the number of hosiery producing companies on a regional basis, the number of hosiery plants operated by these companies, the number of employees in the industry and percentage of production by area. Imports and exports of hosiery are also analyzed.

CELLULOSIC FIBERS (SIC 2823): TRENDS AND PROJECTIONS 1972-81

(IN MILLIONS OF DOLLARS EXCEPT AS NOTED)

ITEM	1972	1977	1978	1979	1980 ^a	1981 ^b	COMPOUND ANNUAL RATE OF GROWTH 1972-81
INDUSTRY DATA							
VALUE OF SHIPMENTS ^c	580.5	1,002.8	1,105.0	1,244.9	1,280.0	1,475.5	10.7
VALUE OF SHIPMENTS (1972 \$) ^c	580.5	737.9	773.3	807.9	722.4	745.3	2.5
TOTAL EMPLOYMENT (000)	17.1	16.0	17.1	17.0	16.3	15.6	1.0
PRODUCTION WORKERS (000)	14.4	12.6	13.7	13.6	12.8	12.1	1.9
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS	3.62	6.02	6.58	7.28	7.89	8.63	10.1
CAPITAL EXPENDITURES	32.7	29.4	32.7	83.7	—	—	—
PRODUCT DATA							
VALUE OF SHIPMENTS ^d	684.6	851.1	943.3	1,088.6	1,087.1	1,259.8	7.0
VALUE OF SHIPMENTS (1972 \$) ^d	684.6	626.3	661.5	706.4	616.8	627.9	1.0
PRODUCT PRICE INDEX (1972=100)	100.0	145.0	151.5	164.4	188.0	212.9	—
QUANTITY SHIPPED (MILLIONS OF POUNDS)	1,185.8	867.9	928.9	934.1	815.7	840.3	3.9
TRADE							
VALUE OF EXPORTS	29.2	61.6	63.9	92.4	81.6	64.7	9.2
VALUE OF IMPORTS	25.7	51.0	45.0	25.0	23.3	20.6	14.1
EXPORT SHIPMENTS RATIO	0.043	0.073	0.068	0.085	0.075	0.051	—
IMPORT NEW SUPPLY RATIO ^e	0.037	0.057	0.046	0.023	0.021	0.021	—

SOURCE: 1982 U.S. Industrial Outlook by the Department of Commerce

a. Estimated except for product price index, exports and imports.

b. Estimated.

c. Value of all products and services sold by industry (SIC 2823).

d. Value of shipments of cellulosic fibers products produced by all industries.

e. New supply is the sum of product shipments plus imports.

ORGANIC FIBERS, NON-CELLULOSIC (SIC 2824): TRENDS AND PROJECTIONS 1972-81

(IN MILLIONS OF DOLLARS EXCEPT AS NOTED)

ITEM	1972	1977	1978	1979	1980 ^a	1981 ^b	COMPOUND ANNUAL RATE OF GROWTH 1972-81
INDUSTRY DATA							
VALUE OF SHIPMENTS ^c	3,638.9	6,379.7	6,921.0	8,227.2	8,810.8	11,034.9	13.1
VALUE OF SHIPMENTS (1972 \$) ^c	3,638.9	5,805.0	6,229.5	6,782.5	6,450.1	6,824.3	7.2
TOTAL EMPLOYMENT (000)	78.2	74.0	72.4	70.8	68.9	68.6	1.4
PRODUCTION WORKERS (000)	58.4	54.8	53.6	52.7	50.7	49.5	1.8
AVERAGE HOURLY EARNINGS OF PRODUCTION WORKERS	4.28	6.66	7.29	7.96	8.80	9.59	9.4
CAPITAL EXPENDITURES	372.5	338.5	487.5	340.1	—	—	—
PRODUCT DATA							
VALUE OF SHIPMENTS ^d	2,949.0	5,471.5	5,912.2	6,719.2	7,250.8	9,077.8	13.3
VALUE OF SHIPMENTS (1972 \$) ^d	2,949.0	5,132.7	5,499.7	5,718.5	5,435.4	5,749.1	7.7
PRODUCT PRICE INDEX (1972=100)	100.0	106.2	107.2	117.2	133.0	157.4	—
QUANTITY SHIPPED (MILLIONS OF POUNDS)	5,360.6	7,104.1	7,756.3	8,420.6	8,003.9	8,465.7	5.2
TRADE							
VALUE OF EXPORTS	140.8	307.8	272.3	304.5	462.5	576.5	17.0
VALUE OF IMPORTS	158.1	89.3	90.9	65.4	69.5	86.2	24.0
EXPORT SHIPMENTS RATIO	0.048	0.056	0.046	0.045	0.064	0.064	—
IMPORT NEW SUPPLY RATIO ^e	0.045	0.020	0.018	0.012	0.011	0.009	—

SOURCE: 1982 U.S. Industrial Outlook by the Department of Commerce

a. Estimated except for product price index, exports and imports.

b. Estimated.

c. Value of all products and services sold by industry (SIC 2824).

d. Value of shipments of non-cellulosic fibers products produced by all industries.

e. New supply is the sum of product shipments plus imports.

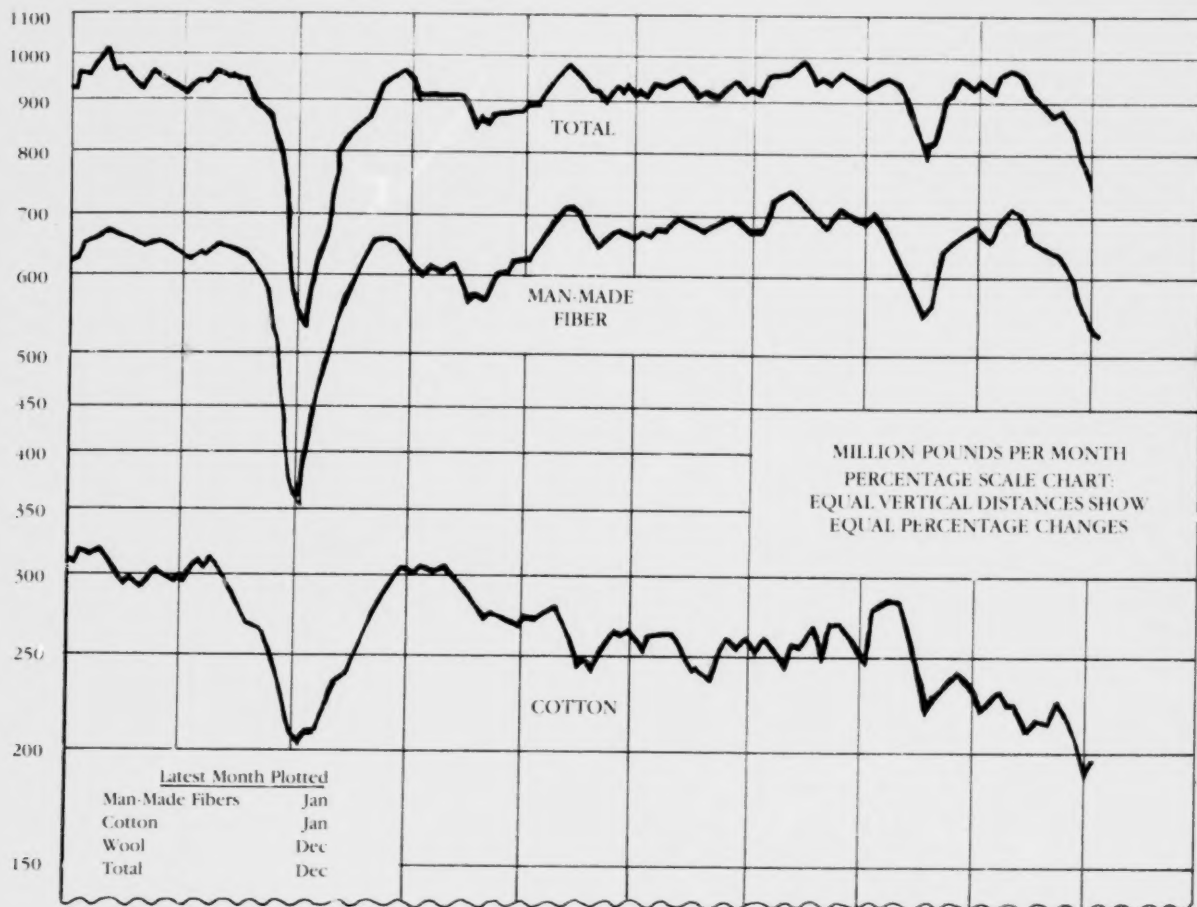
U.S. PRODUCTION OF HOSIERY, 1967-1980

MILLION DOZEN PAIRS

	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980
WOMEN'S														
PANTYHOSE SHEER	NA	15.3	44.9	81.7	60.7	76.0	68.9	54.4	51.6	55.1	47.6	44.6	55.3	57.3
PANTYHOSE ELASTOMER	}	NA	1.6	14.2	6.7	4.8	2.3	3.8	4.7	8.8	13.8	19.4	27.7	33.2
PANTYHOSE OTHER ^a							2.6	2.3	0.9	0.9	1.5	1.7	1.6	2.4
SUBTOTAL PANTYHOSE	NA	16.9	59.1	88.4	65.5	80.9	75.0	60.0	61.3	70.4	68.7	73.9	90.9	96.0
STOCKINGS NONSTRETCH	100.3	85.8	44.6	23.4	14.1	8.5	7.7	5.9	4.5	3.7	3.0	2.6	2.4	2.0
STOCKINGS STRETCH	16.2	16.9	19.1	9.5	11.0	7.1	6.6	6.1	3.5	2.8	2.4	2.8	2.7	2.4
STOCKINGS SUPPORT	}	2.6	1.9	2.8	1.8	1.3	0.9	0.8	0.7	0.9	1.0	1.0	0.7	0.7
STOCKINGS OTHER				2.1	1.6	1.1	0.7	0.5	0.4	0.1	0.1	0.2	0.1	0.1
SUBTOTAL STOCKINGS	119.1	104.6	68.6	36.3	27.5	17.2	15.6	13.2	8.8	7.5	6.6	6.5	6.0	5.2
SHEER KNEE HIGHS & ANKLETS	0.5	0.4	0.4	1.0	2.1	4.6	9.3	15.5	27.6	35.9	35.3	30.5	44.8	38.4
TOTAL WOMEN'S	119.6	121.9	128.1	125.7	95.1	102.7	99.9	88.7	97.7	113.8	110.6	110.9	141.7	139.6
MEN'S (SIZES 10 AND UP)														
ANKLETS & FOOTSOCKS	45.1	41.2	48.1	54.1	49.7	52.9	52.9	53.9	51.2	51.5	50.7	51.7	43.7	27.9
MID CALF	5.5	5.6	5.3	5.7	6.1	6.9	6.8	6.1	6.3	7.7	9.5	11.3	12.5	17.4
KNEE HIGHS	3.8	3.3	3.8	4.4	3.9	3.7	4.0	4.2	5.7	6.8	9.1	13.4	16.0	17.8
TOTAL MEN'S	54.4	50.1	57.2	64.2	59.7	63.5	63.7	64.2	63.2	66.0	69.3	76.4	72.2	63.1
GIRLS, BOYS & WOMEN'S (SIZES 8-11)														
ANKLETS	29.0	22.3	22.7	20.4	21.4	21.3	22.2	20.7	20.7	21.3	20.3	18.5	19.6	12.5
KNEE HIGHS	4.8	6.2	10.2	10.4	11.9	14.2	15.0	16.1	16.8	19.4	21.9	20.6	22.1	24.3
MID CALF CREW	}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.1
WAIST HIGHS														0.3
FOOTSOCKS	1.8	1.7	2.6	2.8	2.7	4.5	4.0	4.6	4.4	5.7	6.8	7.6	6.7	8.6
TOTAL SIZES 8-11	35.6	30.2	35.5	33.6	36.0	40.0	41.2	41.4	41.9	46.4	49.0	46.7	48.4	48.8
INFANTS & CHILDREN'S (SIZES 3-8½)														
ANKLETS	18.5	15.2	15.9	15.3	15.6	17.3	17.9	17.3	17.3	21.3	21.4	22.1	22.1	19.3
KNEE HIGHS	2.2	2.9	3.5	4.2	3.8	3.6	4.1	4.2	4.1	5.5	6.1	6.4	8.5	6.6
MID CALF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3
WAIST HIGHS & FOOTSOCKS	NA	NA	1.2	1.1	0.7	0.8	0.6	0.6	0.5	0.9	1.0	1.3	1.6	1.6
TOTAL SIZES 3-8½	20.7	18.1	20.6	20.6	20.1	21.7	22.6	22.1	22.0	27.7	28.5	29.8	32.2	28.8
TOTAL HOSIERY	230.3	220.3	241.4	244.1	210.9	227.9	227.4	216.4	224.8	253.9	257.4	263.8	294.5	280.3

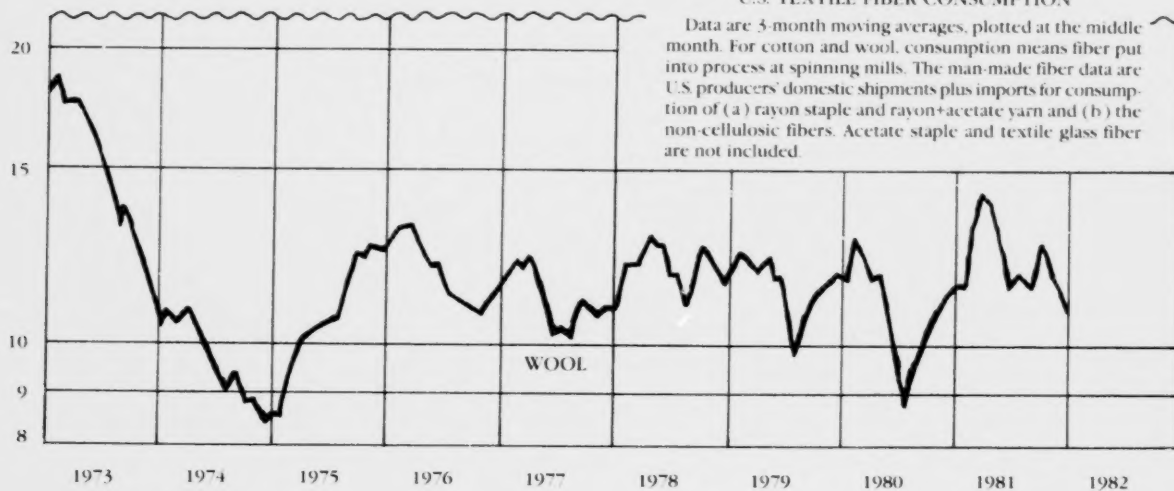
SOURCE: National Association of Hosiery Manufacturers - 1980 Hosiery Statistics.

a. Includes opaque hosiery, which is defined as hosiery knit on 370 needles or more, using leg yarn 30 denier or coarser.



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.



**SELECTED U.S. MAN-MADE FIBER IMPORTS
FOR CONSUMPTION BY COUNTRY OF ORIGIN**
THOUSAND POUNDS

ITEM	1981												1982
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
RAYON+ACETATE YARN, MONOFIL & STRIPS													
CANADA	318	125	8	1	12	5	0	15	4	14	35	87	0
MEXICO	161	79	163	41	191	166	81	246	121	78	68	122	155
BELGIUM	0	50	25	0	76	0	23	0	0	6	16	0	11
WEST GERMANY	242	290	555	200	639	179	115	357	306	435	205	229	502
GREECE	0	0	0	0	39	0	0	0	0	82	40	0	0
NETHERLANDS	236	594	333	293	262	194	372	330	284	197	198	90	86
SPAIN	142	0	0	0	41	0	40	0	0	0	0	41	40
UNITED KINGDOM	1	10	0	6	41	0	90	73	14	0	0	0	0
JAPAN	64	0	0	0	33	36	0	28	14	51	25	0	20
SOUTH KOREA	1	0	0	40	40	0	0	0	60	34	0	0	0
ALL OTHER COUNTRIES ^a	19	4	0	0	0	20	5	38	0	24	9	43	47
TOTAL R+A YARN	1184	1151	1084	581	1374	600	726	1087	803	921	596	612	861
RAYON+ACETATE STAPLE+TOW													
CANADA	469	474	436	451	421	392	411	463	407	401	295	204	155
AUSTRIA	731	113	166	303	768	250	463	368	526	300	651	64	605
FRANCE	18	83	39	43	0	45	0	0	0	194	0	0	1
WEST GERMANY	0	0	85	0	0	0	0	43	2	43	0	87	42
ITALY	0	12	0	0	36	16	105	115	0	292	0	0	0
SWEDEN	332	234	184	0	187	227	227	298	224	184	331	281	464
UNITED KINGDOM	226	76	7	157	203	235	349	75	122	249	148	39	117
JAPAN	90	147	74	118	59	88	105	87	60	220	99	78	149
ALL OTHER COUNTRIES ^b	0	0	0	0	0	0	2	0	96	37	0	23	153
TOTAL R+A STAPLE	1866	1139	991	1072	1674	1253	1662	1449	1437	1920	1524	776	1686
NON-CELLULOSIC YARN, MONOFIL & STRIPS													
CANADA	50	98	4	579	415	280	389	263	55	45	207	121	295
MEXICO	14	20	12	15	44	9	3	99	2	8		9	0
AUSTRIA	0		0	0	64	0	41	10	0	11	0	11	7
BELGIUM	0	0	0	0		1	0	5	57	68		0	0
FRANCE	94	130	203	210	166	109	235	125	101	214	137	112	128
WEST GERMANY	256	382	275	501	426	353	320	508	352	470	557	206	581
ITALY	52	152	35	0	108	79	0	333	227	155	47	41	24
NETHERLANDS	0	1	9	0	49	28		42	0	3	38	1	2
SPAIN	61	0	0	0	0	0	0	179	0	99	0	0	0
SWITZERLAND	1	3	8	0	3	3	50		3	50	1	28	2
UNITED KINGDOM	57	114	37	3	5	1	4	15	14	48	27	56	67
JAPAN	300	671	357	776	662	743	773	601	360	670	691	262	453
SOUTH KOREA	5	36	3	3	43	2	1	3	3	2	1	1	2
ALL OTHER COUNTRIES ^c	2	3	6	0	50	6	2	0	31	11	42	61	122
TOTAL N.C. YARN	892	1610	949	2087	2035	1614	1818	2183	1205	1854	1748	939	1683
NON-CELLULOSIC STAPLE+TOW													
CANADA	328	350	449	531	714	425	1250	649	696	617	353	285	439
MEXICO	190	28	97	510	693	217	141	384	264	483	781	42	177
BELGIUM	0	130	0	152	70	2	5	36	31	115	203	128	29
FRANCE	44	797	198	508	533	254	528	168	472	406	379	56	219
WEST GERMANY	541	1963	1625	2233	1644	1345	2386	2453	732	1601	3446	751	730
IRELAND		56	0	0	0	0	39	0	39	87	0	39	0
ITALY	7	813	616	423	717	164	1426	649	1202	72	1193	50	58
NETHERLANDS	0	39	44	80	35	15	15	98	37	24	15	44	141
POLAND	44	38	0	0	89	0	0	3	0	0	26	0	0
ROMANIA	0	0	132	84	28	0	23	0	71	287	0	58	50
UNITED KINGDOM	208	508	320	173	264	818	713	607	306	411	465	282	195
EGYPT	0	0	0	0	0	0	0	0	333	0	0	0	0
JAPAN	828	335	367	493	343	478	434	288	202	356	264	328	588
TAIWAN	324	745	588	875	583	866	198	852	1291	653	258	130	616
ALL OTHER COUNTRIES ^d	0	13	0	16	1	54	23	72	26	11	79	2	16
TOTAL N.C. STAPLE	2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862	2195	3258

Other countries supplying 1982 poundages are:

a. France 44 & Italy 3.

b. Australia 153.

c. Costa Rica 117, Ireland 1 & Sweden 4.

d. East Germany 15 & Switzerland 1.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION THOUSAND POUNDS

ITEM		COMMODITY NUMBER AS OF 1 - 1 - 78	1981												1982
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN
RAYON+ACETATE															
YARN - SINGLES															
TEXTURED		510.0106 & 0206	1	10	0	242	4	0	9		0	0	43	5	
OTHER		510.0130 & 0230 ^a	1182	1139	1084	549	1370	600	712	1072	803	920	587	856	
MONOFILAMENTS		509.0310 & 0610	1	2	0	0	0	0	0	0	0	1	0	0	
STRIPS, 1 LB & UNDER		509.2000 ^a	0	0	0	0	0	0	5	15	0	0	9	0	
SUBTOTAL ABOVE			1184	1151	1084	581	1374	600	726	1087	803	921	596	861	
STAPLE		509.4320 & 4325	1627	1006	927	887	1442	990	1311	1317	1358	1686	1338	747	
GROUPED FILAMENTS		509.3010 & 5110	239	133	64	185	232	263	351	132	79	234	186	49	
SUBTOTAL ABOVE			1866	1139	991	1072	1674	1253	1662	1449	1437	1920	1524	776	
WASTE, ADVANCED & NOT ADVANCED		509.6615 & 7510	37	7	37	0	45	40	65	40	40	58	116	48	
NON-CELLULOSIC FIBERS															
YARN - SINGLES															
TEXTURED - NYLON		510.0109 & 0209	197	217	215	586	507	375	471	159	176	443	195	286	
POLYESTER		510.0110 & 0210	27	7	22	13	70	80	1	294	98	16	65	66	
OTHER		510.0114 & 0214	17	56	8	17	49	23	85	21	3	149	35	29	
OTHER - NYLON		510.0149 & 0249	204	525	127	542	487	354	317	416	438	284	208	74	
POLYESTER		510.0150 & 0250	111	411	299	399	482	491	293	935	190	618	941	271	
OTHER		510.0170 & 0270 ^b	170	183	113	188	164	56	182	81	108	111	89	150	
MONOFILAMENTS		509.0200 & 0300 ^c	145	200	149	321	258	220	458	263	161	220	191	29	
STRIPS, OVER 1 LB		509.2100 & 2500 ^c	21	11	16	21	9	15	11	14	31	13	24	34	
SUBTOTAL ABOVE			892	1610	949	2087	2035	1614	1818	2183	1205	1854	1748	939	
STAPLE - NYLON		509.4338	3525	2686	1698	2534	2455	1571	4055	3238	2062	504	1729	517	
POLYESTER		509.4342	132	111	306	661	847	563	328	576	840	1187	1066	232	
ACRYLIC		509.4345	1069	1594	907	1201	1005	565	746	695	480	1259	569	385	
OLEFIN		509.4346	5	0	304	1	5	71	474	79	125	60	10	1	
OTHER		509.4355	469	961	673	1088	852	1281	356	1285	1666	1069	616	350	
GROUPED FILAMENTS															
NYLON		509.5030 & 5130	68	50	68	137	155	196	500	23	18	473	300	187	
POLYESTER		509.5040 & 5140	0	42	0	0	44	90	18	30		43	22	47	
ACRYLIC		509.5050 & 5150	181	255	178	291	195	312	372	256	175	375	477	367	
OTHER		509.5065 & 5165	65	116	302	166	156	186	342	77	336	153	73	110	
SUBTOTAL ABOVE			2514	5815	4436	6078	5714	4638	7181	6259	5702	5123	4862	2195	
WASTE, NOT ADVANCED - NYLON		509.6625	1598	1587	2822	1713	2134	1607	2239	2344	2417	2114	2458	2222	
POLYESTER		509.6630	1071	1810	1547	1005	1473	1321	1438	1409	1282	2508	1491	1756	
ACRYLIC		509.6645	289	258	200	236	379	269	87	514	3	40	424	183	
OTHER		509.6660	32	203	263	328	127	331	196	340	15	368	346	420	
NOIS & GARNETTED FIBERS		509.6000 & 7000 ^a	0	0	0	0	0	0	29	28	0	28	0	0	
OTHER WASTE, ADVANCED		509.7525 & 7555	119	63	3	35	2	6	23	58	31	117	74	5	
SUBTOTAL ABOVE			3109	3921	4835	3317	4115	3534	4012	4693	3748	5165	4793	4586	
TOTAL MAN-MADE ABOVE			9602	13643	12332	13135	14947	11679	15464	15717	12935	15041	13639	9146	
OTHER MAN-MADE FIBER TOPS, YARN & THREAD															
YARN - PLIED															
TEXTURED - CELLULOSIC		510.1106	0		24	0	0	0	0	0	0	1	0	0	
NON-CELLULOSIC		510.1015 ^d & 1109 ^e	268	124	213	313	364	265	342	335	143	459	209	180	
OTHER - CELLULOSIC		510.1030 & 1135 ^f	16		0		0	0	0	1	0	1	3		
NON-CELLULOSIC		510.1050 & 1070 ^g	20	27	26	44	20	4	125	14	13	16	45	19	
SPUN YARN - CELLULOSIC		510.4005 & 4030 ^h	10	25	24	52	37	24	93	130	58	75	67	64	
OTHER		510.4015 & 4027 ⁱ	1762	1454	1794	1740	2164	1312	1542	1314	1258	1982	1315	962	
OTHER YARNS - NES INCL CHENILLE		510.6029 & 8000	352	109	261	415	609	433	361	356	374	345	324	178	
HANDWORK YARNS & SEWING THREAD		510.9000 & 9140	247	230	188	190	262	292	226	208	195	316	272	171	
SILVER TOPS & ROVING		509.9000	388	473	322	262	173	245	370	595	115	366	127	186	
TEXTILE GLASS FIBER		509.2800 & 2900 ^j	1156	441	1347	551	643	1485	1575	3434	2410	2127	2201	1142	
GRAND TOTAL ABOVE			13821	16526	16231	16702	19219	15739	20098	22104	17501	20729	18292	12048	
														15998	

SOURCE: U.S. Census Bureau.

NES: Not elsewhere specified.

• These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non cellulosic is estimated, based mainly on average declared value.

a. Also includes 510.0510 & 0610.

b. Also includes 510.0530, 0550, 0630 & 0650.

c. Also includes 309.0340, 0365, 0500, 0630, 0640 & 0665.

d. There may be some acetate yarn in these data, but the Census

figures do not permit a segregation.

e. Also includes 510.1110 & 1114.

f. Also includes 510.2010 & 2110.

g. Also includes 510.1150, 1155, 1170, 2030, 2050, 2130 & 2150.

h. Also includes 510.5005 & 5030.

i. Also includes 310.4046, 4047, 4050, 5015, 5046, 5047, 5049 & 5051.

j. Chiefly roving. Also includes 309.9800 & 9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
MAN-MADE FIBER DATA^c								
YARN*MONOFILAMENTS^d								
ACETATE								
	19.1	16.9					36.0	42.5
NYLON ^e INDUSTRIAL ^f	26.2	29.2					55.4	68.9
LOW DENIER INDUSTRIAL ^g	2.6	2.3					4.9	6.0
CARPET	40.3	43.3					83.6	130.9
TEXTILE	27.9	27.0					54.9	70.3
POLYESTER INDUSTRIAL ^f	22.6	24.4					47.0	48.8
LOW DENIER INDUSTRIAL ^g	1.9	1.8					3.7	4.2
TEXTILE	75.4	87.8					163.2	190.8
OLEFIN ^h	52.0	52.4					104.4	111.8
TOTAL NON-CELLULOSIC ABOVEⁱ	248.9	268.2					517.1	631.7
STAPLE*TOW*FIBERFILL^j								
RAYON								
	30.3	28.9					59.2	76.3
NYLON ^e	48.0	48.3					96.3	138.2
ACRYLIC*MODACRYLIC	45.8	47.7					93.5	121.5
POLYESTER	173.3	176.4					349.7	419.7
OLEFIN*VINYON	7.8	9.6					17.4	21.1
TOTAL NON-CELLULOSIC ABOVE	274.9	282.0					556.9	700.5
END-OF-MONTH STOCK								
YARN*MONOFILAMENTS								
ACETATE								
	12.4	11.7					11.7	15.4
NYLON ^e INDUSTRIAL ^f	41.7	37.6					37.6	37.9
LOW DENIER INDUSTRIAL ^g	4.5	4.5					4.5	3.2
CARPET	62.3	58.0					58.0	38.2
TEXTILE	50.9	52.9					52.9	43.1
POLYESTER INDUSTRIAL ^f	23.7	25.1					25.1	23.1
LOW DENIER INDUSTRIAL ^g	4.0	3.4					3.4	3.4
TEXTILE	93.4	89.9					89.9	104.1
OLEFIN ^h	64.3	64.0					64.0	62.3
TOTAL NON-CELLULOSIC ABOVEⁱ	344.8	335.4					335.4	315.3
STAPLE*TOW*FIBERFILL								
RAYON								
	32.6	35.6					35.6	25.1
NYLON ^e	63.9	58.7					58.7	37.4
ACRYLIC*MODACRYLIC	68.6	65.2					65.2	76.3
POLYESTER	180.4	191.9					191.9	182.3
OLEFIN*VINYON	30.0	31.3					31.3	16.9
TOTAL NON-CELLULOSIC ABOVE	342.9	347.1					347.1	312.9
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	10.5						10.5	11.0
CARPET CLASS WOOL	0.7						0.7	0.8
TOTAL RAW WOOL	11.2						11.2	11.8
RAW COTTON	188.3	222.0					410.3	462.8

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spun-bonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*tow data are available annually only; see page 21 of the February issue.

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MONTHLY REVIEW

Highlights

U.S. exports of man made fibers and manufactures (except textile glass fibers) during 1981 totaled a record high 2,088,768 thousand pounds, 12% more than 1980.

Imports of man made fibers and manufactures (except glass fibers) last year were 796,356 thousand pounds, a 25% increase over 1980 figures.

Thus, an **export balance** of 1,292,412 thousand pounds occurred during 1981, 10% less than the record export balance of 1,443,534 thousand pounds recorded in 1980.

NON-CELLULOSIC SHIPMENTS UP 5%

Shipments of non cellulosic fibers (except saran and spandex) continued the improvement begun in February. March shipments of these fibers totaled 577.4 million pounds, 5% above the 550.4 million pounds delivered during the previous month. Filament yarn shipments increased 5% in March, to 281.5 million pounds, and staple+tow deliveries increased 4½%, to 295.9 million pounds, from their respective February levels.

However, first quarter 1982 shipments of non cellulosic fibers (except saran and spandex), at 1,651.7 million pounds, were 18% below first quarter 1981 levels of 2,026.3 million pounds. Filament yarn shipments for the January-March 1982 quarter totaled 797.8 million pounds, 18% less than first quarter 1981 deliveries and staple+tow deliveries during the latest quarter, at 853.9 million pounds, were 19% below those of the corresponding 1981 quarter.

MARCH AND FEBRUARY SHIPMENTS COMPARED

Following is a comparison of total March shipments of non cellulosic yarn+monofilaments (except saran and spandex) with February (million pounds), and the percentage change, respectively: nylon industrial yarn

31.5 & 29.2 & +8%; low denier industrial 2.6 & 2.3 & +13%; carpet 46.0 & 43.3 & +6%; textile 29.5 & 27.0 & +9%; polyester industrial 27.8 & 24.4 & +14%; low denier industrial 1.9 & 1.8 & +5½%; textile 88.5 & 87.8 & +1%; olefin 53.7 & 52.0 & +3½% and the total of these fibers 281.5 & 267.8 & +5%.

Similarly, for non cellulosic staple+tow, the corresponding data are: nylon 49.7 & 48.3 & +3%; acrylic+modacrylic 61.0 & 47.7 & +28%; polyester 174.0 & 176.4 & -1½%; olefin+vinylon 11.2 & 10.2 & +10% and the total 295.9 & 282.6 & +4½%.

March shipments of acrylic+modacrylic staple+tow, at 61.0 million pounds, were at their highest level since 61.9 million pounds were shipped during May 1981.

CELLULOSIC SHIPMENTS INCREASED 2% IN MARCH

March deliveries of acetate filament yarn and rayon staple+tow totaled 46.8 million pounds, 2% more than the 45.8 million pounds shipped in February. However, shipments for the first three months of 1982, at 142.0 million pounds, were 20% less than the 178.2 million pounds shipped during the first quarter of 1981.

Acetate yarn deliveries during March totaled 17.7 million pounds, 4½% above the 16.9 million pounds shipped in February. But, year to date shipments of 53.7 million pounds were 16% less than the 64.0 million pounds delivered during the January-March 1981 period.

Deliveries of rayon staple+tow in March were 29.1 million pounds, an increase of ½% over the 28.9 million pounds shipped during the previous month. However, first quarter 1982 shipments of 88.3 million pounds were 23% below the 114.2 million pounds delivered during the corresponding 1981 quarter.

NON-CELLULOSIC STOCKS DECLINED 1½% IN MARCH

As of March 31, 1982, man made fiber producers had on hand 670.8 million pounds of non cellulosic fiber

(except saran and spandex), 1 1/2% less than the 682.5 million pounds on hand as of the end of February. Thus the stock on hand (based on a 22 day shipping month) represented 26 days' supply as compared with 27 days' supply as of the end of February.

For filament yarn, the number of days' supply on hand (based on a 22 day shipping month) as of the end of March was, for nylon industrial yarn, 23 days; low denier industrial 35 days; carpet 27 days; textile 38 days; polyester industrial 20 days; low denier industrial 44 days; textile 23 days; olefin 26 days and the total of these fibers 26 days.

Similarly, for staple-tow, the stock on hand as of March 31 was: nylon 26 days; acrylic-modacrylic 22 days; polyester 24 days; olefin 62 days and total staple-tow 25 days.

However, the stock of cellulosic fiber on hand, as of the end of March, increased 9 1/2% to 51.7 million pounds from the previous month. For acetate yarn, stock on hand represented a 17 day supply and for rayon staple-tow a 29 day supply.

FIRST QUARTER COTTON CONSUMPTION OFF 12%

Consumption of cotton by U.S. mills totaled 625.3 million pounds during the first quarter of 1982, a decline of 12% from the 709.9 million pounds consumed during the January-March 1981 quarter. First quarter 1982 consumption was marginally above the 624.1 million pounds of cotton used by U.S. mills during the fourth quarter of 1981.

MARCH *Organon* CORRECTIONS

In the table on page 44, U.S. mill consumption of cotton and wool in 1981 should read 2,703.8 million pounds and 152.9 million pounds respectively.

IMPORT-EXPORT REVIEW

The principal data sources for this annual article and accompanying tables on U.S. imports and exports of man made fibers and products are the U.S. Census Bureau and the Department of Agriculture.

Import data are given on pages 68, 69, 70, 71, 72 and 78, while the details of country of origin for selected fiber imports are shown on pages 70, 71 and 72. Additional country of origin detail on certain man made fiber imports was given on page 36 of the recent February *Organon*.

Export data are covered on pages 73, 74, 75 and 78, with pages 74 and 75 detailing certain export items by country of destination.

The map on pages 76 and 77 details the flow of trade in fibers, fabrics and apparel (in million dollars) for 1981. The imports and exports of fibers are from the tables herewith and the fabrics and apparel data are from

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Textile Organon

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IMPORTS, EXPORTS & BALANCE

U.S. imports of man-made fibers and manufactures totaled 796,356 thousand pounds during 1981, an increase of 25% over the 636,319 thousand pounds imported during 1980.

The 1981 exports of man-made fibers and products totaled 2,088,768 thousand pounds, a new record high, 12% more than the 2,079,853 thousand pounds exported during 1980. Reference may be made to the page 78 table.

As is customary in these annual import-export reviews, the foreign trade data of the Census Bureau, which may be reported in units other than pounds (dollars, dozens, yards, etc.), have been converted to their poundage equivalents so as to afford a single, overall annual figure showing the balance of trade. Data of the Department of Agriculture, as published in *The Cotton and Wool Situation*, are used for this purpose.

As shown in the page 78 table, the 1981 export balance was 1,292,412 thousand pounds, a 10% decline from the record export balance of 1,443,534 thousand pounds recorded in 1980. Thus, for the ninth consecutive year, the U.S. recorded an export balance in the trade of man-made fibers and manufactures. However, the U.S. recorded an import balance of 1,345 thousand pounds in the trade of man-made fiber products, compared with a 230,901 thousand pound export balance the previous year.

THE IMPORT SITUATION

The principal man-made fibers imported into the United States prior to 1969 were in the form of raw materials, i.e., filament yarn, staple, etc. Since 1969, imports of man-made fiber semimanufactures and manufactures have exceeded these raw materials on a poundage basis except for 1971, when they were about equal. The 1981 figures continue this trend with imports of products being four times the volume of fiber imports.

Man-made fiber yarn, monofilaments, staple, tow and waste brought into this country last year totaled 157,280 thousand pounds, an increase of 64% over the 95,675 thousand pounds imported during 1980. Imports of non-cellulosic fibers during 1981 totaled 129,279 thousand pounds, 68% more than the 76,728 thousand pounds imported in 1980, while rayon-acetate imports increased 48%, to 28,001 thousand pounds last year.

Imports of man-made fiber apparel increased by 15% during 1981, to 436,866 thousand pounds. Thus, apparel represented some 55% of total man-made fiber imports in 1981, as compared with 59% in 1980. The table on page 72 details imports of man-made apparel (equiva-

lent square yards) by country of origin.

U.S. IMPORTS OF APPAREL

The table on page 72 shows U.S. general imports of man-made fiber apparel in millions of equivalent square yards of fabric for the last 5 years.

Asia continues to dominate the apparel import picture for man-made fibers, with 89% of the 1981 total coming from that region. Taiwan alone supplied 30% of U.S. imports of man-made fiber apparel with the Republic of Korea supplying another 28% of the total. Thus, these two countries supplied over half of the total U.S. imports. Hong Kong and the Philippines together supplied another 17% of U.S. man-made fiber apparel imports.

The Americas accounted for 10% of U.S. imports of these products, with the remaining 1% coming from Europe. In 1980, Asia accounted for 87% of these apparel imports, with 12% coming from the Americas and 1% from Europe.

THE EXPORT PICTURE

1981 exports of man-made fibers (excluding textile glass) totaled a record 1,451,037 thousand pounds, 11% greater than the 1,308,308 thousand pounds exported during 1980. The dollar volume of 1981 exports was 1,374,980 thousand dollars, or 95 cents/pound on average, as compared with 1,152,689 thousand dollars and 88 cents/pound on average in 1980.

Exports of rayon-acetate yarn-monofilaments last year totaled 24,707 thousand pounds, a decline of 8½% from the 26,930 thousand pounds exported in 1980. Rayon-acetate staple-tow exports during 1981 decreased 13% to 62,160 thousand pounds.

Non-cellulosic yarn-monofilament exports during 1981 totaled 463,424 thousand pounds, an increase of 30% from the 355,323 thousand pounds exported in 1980. The bulk of this increase resulted from the doubling of polyester textured yarn exports, from 114,910 thousand pounds in 1980 to 236,152 thousand pounds in 1981. Exports of non-cellulosic staple-tow increased 8%, to 790,682 thousand pounds, in 1981.

The page 78 table shows that cellulosic and non-cellulosic fiber exported from the United States last year totaled 1,451,037 thousand pounds, 69% of the total exports of fibers and manufactures. In 1980 these figures were 1,307,768 thousand pounds and 63% respectively. Exports of man-made fibers increased 11% between 1980 and 1981 while exports of man-made fiber products decreased 17%, to 637,731 thousand pounds, during the same time period.

EXPORTS BY COUNTRY OF DESTINATION

A picture of the by-country and regional distribution of the principal man-made fiber exports for 1980 and
(Continued on page 69)

[illegible]

Figures do not permit a segregation of

c. Also includes 510-1110 & 1111

1. *Completely revised. Also includes new cases & updates.*

4. Included in Other Textured below.

U.S. IMPORTS OF SELECTED MAN-MADE FIBER MANUFACTURES

ITEM	COMMODITY NUMBER AS OF 1/1/81	THOUSAND POUNDS					THOUSAND DOLLARS				
		1977	1978	1979	1980	1981	1977	1978	1979	1980	1981
KNIT FABRIC IN THE PIECE											
RAYON & ACETATE		391	196	311	170	378	3780	3612	1557	1100	1000
ACRYL	560.9011 - 9007	208	168	80	147	127	1430	880	330	970	720
NYLON	560.11.0011	540	775	455	510	540	5747	6170	2400	1800	2200
POLYESTER		1201	5057	2415	1548	1000	20057	22810	11020	7710	5170
OTHER MAN-MADE FIBER		56	315	758	670	222	1531	6210	3075	2200	1800
TOTAL KNIT FABRICS		8196	7671	3709	2596	2099	29160	32950	19058	13898	11163
BROAD WOVEN FABRICS											
MAN-MADE FIBER FABRICS CONTAINING MORE THAN 1% WOOL	560.1000 - 1000	14000					11822				
RAYON & ACETATE			278	12	32	28		362	50	800	180
NYLON			81	151	100	88		890	1502	1401	780
POLYESTER			10405	10100	10580	22170		10501	10224	71725	91700
OTHER MAN-MADE FIBER			11120	10580	12007	10550		20005	82510	67802	84251
OTHER WOVEN FABRICS IN THE PIECE (EXCEPT FIBER FABRICS)	560.2000 - 560.2										
ACETATE			372	700	855	555	3057	5005	4115	4005	1517
RAYON - 100% FIBREMENT YARN			5541	5221	2230	2507	10801	14098	14228	15020	9101
FIBER MAINLY 100% YARN			920	1241	1005	2000	6822	7500	12070	15750	
RAYON & ACETATE											
RAYON & ACETATE											
ACRYL			1700	1445	110	348	1080	1000	5508	5000	1050
NYLON			8548	8850	2408	1255	11688	15000	11920	7010	4450
POLYESTER			53748	10812	28475	80424	150481	257707	200088	212508	518205
OTHER MAN-MADE FIBER			1055	1480	2055	1000	1445	2520	4005	4102	4010
OTHER MAN-MADE FIBER			1005	2550	1100	1800	7028	3072	6212	7880	45025
OTHER FIBER FABRICS	560.3000 - 3000		6080	2100	1005	1005	14710	7025	5001	4051	4515
OTHER FIBER FABRICS											
TOTAL BROAD WOVEN FABRICS	560.2000 - 560.2		2044	97	97	90	8710	115	220	30	510
TOTAL BROAD WOVEN FABRICS		67922	87027	68745	72157	99756	284723	408759	368207	404098	561360

(Continued from page 67)

1981 is detailed by the table on pages 74 and 75. It should be noted that in 1981 the People's Republic of China was the largest importer of U.S. man made fibers (47% of the total) followed by Canada (8½%), Belgium-Luxembourg (4½%), Hong Kong (3½%), the Republic of South Africa (3½%) and Taiwan (3%).

The biggest change has been the importance of Asia and Oceania, particularly the People's Republic of China, as a market for U.S. man made fibers. In 1981, this region accounted for 65% of all U.S. exports, up from 48% in 1980. In fact exports to all other areas of the world declined between 1981 and 1980. (See text table below.)

U.S. EXPORTS TO:	1980	1981	% Change
SOUTHERN AMERICA	187,207	170,088	-9.1%
SOUTHWEST AMERICA	108,405	85,833	-20.8%
EUROPE	254,245	351,865	+37.6%
ASIA & OCEANIA	571,054	805,588	+41.2%
MIDDLE EAST	73,219	100,450	+37.2%
WORLD TOTAL	1,105,928	1,540,973	+38.4%

Exports of rayon+acetate yarn, monofil and strips decreased by 2,223 thousand pounds during 1981. According to Census data, Belgium, Luxembourg was the large

est customer of these products, taking 10,786 thousand pounds last year. However, the official Belgium-Luxembourg data show imports of rayon+acetate yarn from the United States as being only a small fraction of this total. In view of this, it must be assumed that Belgium-Luxembourg was largely a sales or billing address and/or port of entry for a majority of the poundage reported as being exported there. Following Belgium-Luxembourg as the main importers of rayon+acetate yarn were the People's Republic of China, Canada, Australia and the U.S.S.R., all taking over a million pounds.

Cellulosic staple+tow exports (excluding cigarette tow) decreased 13% to a level of 62,160 thousand pounds. Venezuela, with 10,555 thousand pounds, was the largest customer of the United States, followed by Mexico, the Republic of Korea and the Philippines.

Non-cellulosic textile yarn exports increased by 128,586 thousand pounds between 1980 and 1981. The most significant increases were to the People's Republic of China (up three fold to 151,230 thousand pounds), Hong Kong (a forty fold increase to 32,705 thousand pounds) and India (a five fold increase to 20,927 thousand pounds). It must be assumed, in light of past export trends, that most of the increased imports of non cellu-

(Continued on page 72)

SELECTED U.S. MAN-MADE FIBER & MANUFACTURES IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN THOUSAND POUNDS

IMPORTS OF MAN-MADE BROAD WOVEN FABRICS

COUNTRY	1977	1978	1979	1980	1981
AUSTRIA	174	191	178	185	190
BELGIUM	2002	1407	815	850	558
FRANCE	2812	5964	8067	2805	1051
GERMANY (FEDERAL REP. OF)	1408	1751	1465	1809	2204
HUNGARY		8	255	124	28
IRELAND	103	55	16	120	2501
ITALY	9554	24986	28618	27571	36650
NETHERLANDS	150	211	170	127	105
PORTUGAL	272	257	400	120	245
ROMANIA	100	458	600	157	40
ROMANIA	614	605	241	47	25
SPAIN	1055	806	457	156	385
SWEDEN	100	218	579	508	576
SWITZERLAND	848	1085	809	1012	150
UNITED KINGDOM	1254	2070	1168	887	521
YUGOSLAVIA	469	857	579	865	108
OTHER EUROPE	22	60	79	92	61
TOTAL EUROPE ABOVE	21944	37567	36043	35168	46508
CHINA (PEOPLE'S REP. OF)	4	5	40	258	1509
HONG KONG	01	280	928	140	102
INDIA	850	660	200	512	117
JAPAN	68409	40285	25796	25070	52588
KOREA (REPUBLIC OF)	2762	4151	6625	10600	11591
MALAYSIA	521	101	105	125	501
INDONESIA	15	119	518	169	548
TAIWAN	851	524	502	788	1041
THAILAND	520	371	900	772	1471
BRAZIL	551	102	727	852	1475
CANADA	1885	2015	1125	1824	2099
ALL OTHER	286	519	425	44	108
TOTAL EXCLUDING EUROPE	45978	49460	52702	36969	55248
GRAND TOTAL	67922	87027	68745	72137	99756

IMPORTS OF MAN-MADE KNIT FABRIC IN THE PIECE

COUNTRY	1977	1978	1979	1980	1981
FRANCE	150	150	160	140	145
GERMANY (FEDERAL REP. OF)	269	408	522	417	290
IRELAND	1101	1199	97	1	
ITALY	450	697	288	182	158
SWEDEN	2	3	17	47	78
UNITED KINGDOM	414	487	802	94	75
OTHER EUROPE	78	80	90	60	51
TOTAL EUROPE ABOVE	2464	2655	1476	956	784
HONG KONG	74	85	87	8	1
JAPAN	5195	1500	2660	1112	950
KOREA (REPUBLIC OF)	228	79	1	2	
SINGAPORE	119		0	0	
TAIWAN	20	42	17	54	50
CANADA	78	274	55	118	101
COSTA RICA	0	0	0	0	77
MEXICO	2	1	4	88	37
ALL OTHER	12	2	11	8	8
TOTAL EXCLUDING EUROPE	5752	5036	2255	1640	1515
GRAND TOTAL	8196	7671	3709	2596	2099

IMPORTS OF MAN-MADE FIBERS

COUNTRY	1977	1978	1979	1980	1981
AUSTRIA	28055	12918	5625	1498	6951
BELGIUM	7041	1856	807	52	2655
CZECHOSLOVAKIA	0	525	0	0	0
DENMARK	58	44	2	2	244
FINLAND	2001	5280	800	150	119
FRANCE	22924	17854	2051	1477	9520
GERMANY (FEDERAL REP. OF)	277	270	0	0	0
GERMANY (FEDERAL REP. OF)	90204	51599	20415	17640	55850
HUNGARY	100	524	90	50	479
IRELAND	252	1057	544	182	450
ITALY	25055	17568	5017	2108	11094
MALTA	0	95	102	105	0
NETHERLANDS	15489	12509	2180	2055	8058
PORTUGAL	109	404	120	65	414
ROMANIA	17	16	488	198	161
ROMANIA	5105	5142	5554	1810	2174
SPAIN	1088	5528	724	260	764
SWEDEN	4720	9100	5011	2065	2724
SWITZERLAND	5128	1211	205	458	479
UNITED KINGDOM	20510	50590	21150	11880	12592
YUGOSLAVIA	185	0	22	44	21
OTHER EUROPE	0	0	0	0	1
TOTAL EUROPE ABOVE	172544	151664	69955	45802	91004
ALBANIA	681	10	177	488	1628
CHINA (PEOPLE'S REP. OF)	0	0	0	45	708
EGYPT	0	0	0	2	555
INDONESIA	155	45	75	15	172
INDIA	284	0	0	85	0
INDONESIA	0	0	129	0	505
IRAN	0	2862	282	0	0
ISRAEL	1581	807	1279	1475	1071
JAPAN	77012	66110	50954	27641	51455
KOREA (REPUBLIC OF)	200	1455	1411	767	850
MALAYSIA	0	54	1108	569	818
NEW ZEALAND	0	0	19	121	169
PHILIPPINES	1720	1582	1004	2450	2451
SINGAPORE	870	1010	608	961	1221
SOUTH AFRICA	1815	5475	1710	1880	1410
TAIWAN	12780	14690	12810	16076	9550
THAILAND	0	0	125	605	542
ARGENTINA	1	0	58	511	61
BRAZIL	522	1270	880	28	41
CANADA	20629	24611	16219	22868	55120
COSTA RICA	0	104	47	5	106
MEXICO	5505	5817	2051	5400	19445
PERU	226	197	85	0	0
SPAIN	1108	266	687	1295	60
ALL OTHER	70	31	25	115	112
TOTAL OTHER ABOVE	150065	121847	74880	80982	107550
TOTAL ABOVE	302409	273511	144835	124784	198554
PRODUCTS NOT DETAILED	8690	11915	12762	7288	10546
GRAND TOTAL	311105	285426	157597	132072	209090

The three section totals on this page agree with the corresponding data on pages 68 and 69 of this issue.

The by country data in the "Imports of Man-Made Fiber" table above include singles, monofilaments & strips (see page 56 of the February 1982 and the corresponding pages of earlier February *Organon* issues) plied filament yarn, staple, grouped filaments, waste, spun yarns and textile glass fiber. The "products not detailed" in the above table comprise handwork yarns & sewing thread, other yarns, NES and sliver, tops & roving.

NOTE: Imports of man-made fiber apparel by country of origin are shown on page 72.

**U.S. GENERAL IMPORTS OF
MAN-MADE FIBER APPAREL**
MILLIONS OF EQUIVALENT SQUARE YARDS

COUNTRY	1977	1978	1979	1980	1981
CHINA, PEOPLE'S REPUBLIC OF	5	15	57	47	50
HONG KONG	191	250	210	207	228
INDIA	1	5	4	5	4
INDONESIA	1	1	2	2	2
INDONESIA	11	15	10	9	5
JAPAN	313	310	52	43	45
KOREA, REPUBLIC OF	809	438	477	449	540
MACAU	10	25	25	17	22
MALAYSIA	1	5	5	5	5
PHILIPPINES	98	100	112	105	105
SINGAPORE	28	50	49	50	42
SRI LANKA	15	5	0	0	0
TAIWAN	492	549	480	500	580
THAILAND	15	54	29	22	25
OTHER ASIA	3	0	3	3	2
TOTAL ASIA & O	1567	1592	1397	1549	1705
BARBADOS	5	0	0	0	0
BELIZE	8	4	5	5	2
CANADA	2	2	2	2	2
COSTA RICA	1	0	0	5	5
CUBA	10	12	10	17	18
DOMINICAN REPUBLIC	15	20	52	54	45
EL SALVADOR	11	12	11	8	2
GUAYANA	2	2	2	4	4
HAITI	54	47	47	40	50
JAMAICA	2	2	4	4	5
PANAMA	5	2	4	4	4
PERU	5	5	4	4	4
PUERTO RICO	72	70	60	72	64
TRINIDAD	10	8	2	1	1
UNITED STATES	5	8	2	5	5
TOTAL AMERICAS	174	205	206	212	192
FRANCE	4	5	4	2	2
GERMANY, FEDERAL REPUBLIC OF	2	4	3	0	0
ITALY	20	20	15	9	7
NETHERLANDS	14	14	0	8	4
PORTUGAL	1	1	1	1	1
ROMANIA	12	14	10	6	10
SPAIN	8	5	2	1	1
UNITED KINGDOM	2	4	4	1	1
YUGOSLAVIA	1	2	2	1	1
OTHER EUROPE	2	2	3	1	1
TOTAL EUROPE	67	69	50	26	27
GRAND TOTAL	1608	1866	1653	1787	1924

SOURCE: U.S. Census Bureau Report PQ 2510

Data for each country represent the total of groupings 650 through 659

(Continued from page 69)

lastic textile yarn into Hong Kong will ultimately end up in the People's Republic of China. 1981 exports of non-cellulosic industrial yarn, monofilaments and strips decreased 16%, to 106,905 thousand pounds.

Exports of non-cellulosic staple-tow, at 790,681 thousand pounds, increased 8% from the 1980 figure. Exports to the People's Republic of China, at 465,061 thousand pounds, accounted for 59% of total U.S. exports in this category. The next most important customer was Canada, importing 76,689 thousand pounds, followed by Taiwan (36,412 thousand pounds) and the Republic of South Africa (35,699 thousand pounds).

U.S. TRADE IN TEXTILES

The map on pages 76-77 depicts the flow of fibers, textiles and apparel between the United States and its major trading areas. The data are in millions of dollars.

U.S. Department of Commerce data on the trade in textiles and apparel were added to the trade in raw materials (staple fiber) to give the totals by geographic area shown on pages 76-77.

WORLD TEXTILE TRADE STATISTICS

Based on the February 1982 United Nations *Monthly Bulletin of Statistics*, the tables on pages 80 and 81 exhibit the world trade of the United States, Europe and Japan in clothing and textile fibers, yarn and fabrics. In each case, the 1980 world total for each of the exporters was increased to new record highs.

The United States increased its world trade of textile fibers by 29%, to \$3,936 million, of textile yarn and fabrics by 14%, to \$3,625 million, and of clothing by 27%, to \$1,219 million. The highlights of U.S. trade were: a) in textile fibers, a 25% increase in trade to Europe, from \$573 million in 1979, to \$715 million in 1980; b) in textile yarn and fabrics, trade to Asia rose by 29.4%, from \$34 million in 1979, to \$134 million in 1980; and c) in clothing, trade to Europe increased to \$413 million in 1980, up 40% from the 1979 level of \$296 million.

European trade in textile fibers rose by 7.2%, to \$4,182 million; textile yarn and fabrics increased by 7.2%, to \$29,053 million, and, in clothing, rose by 14%, to \$18,275 million. The European nations' trade is primarily amongst themselves. In fact, in textile fibers, of its 1980 world total, inter-European trade accounts for 71%, or \$2,987 million. Similarly, the inter-European textile yarn and fabrics trade is \$22,012 million, 76% of the 1980 world total, in clothing, 84%, or \$15,401 million, of the total European trade is conducted within the European community.

Trade for Japan in textile fibers registered a rise of 25%, to \$702 million; in textile yarn and fabrics by 28%, to \$5,102 million; and in clothing by 42%, to \$500 million. Japan made gains in textile fibers, with trade to noncentrally planned countries in Asia increasing 165% for 1980, to \$172 million, from the 1979 level of \$65 million. In like fashion, trade to the same Asian countries in textile yarn and fabrics rose to \$277 million, 94% more than the 1979 total of \$143 million. For clothing, trade to Asia and Oceania rose 60% in 1980, from the 1979 figure of \$77 million, to \$123 million.

BROAD WOVEN GOODS PRODUCTION

During 1981, U.S. broad weaving mills produced 15,866.2 million square yards, 1% above the 15,698.9 million square yards produced in 1980. The 1981 broad

U.S. EXPORTS OF MAN-MADE FIBERS

ITEM	COMMODITY NUMBER AS OF 1/1/78	THOUSAND POUNDS					THOUSAND DOLLARS						
		1977	1978	1979	1980	1981	1977	1978	1979	1980	1981		
RAYON-ACETATE													
FILAMENT YARN*													
ACETATE TEXTURED	410.0000	}	2474	1900	3150	2585	557	}	22080	2228	4504	3574	504
OTHER													
RAYON HIGH TENACITY	410.0020	}	2000	1702 ^b	2077 ^b	2430 ^b	2401 ^b	}	4070	15330	24880	28135	27329
OTHER			2048						2837				
MONOFILAMENTS	499.0110	}		1413	521	149	90	}		1570	145	343	212
OTHER	499.0210			51	45	180	540			408	58	61	273
SUBTOTAL ABOVE			30385	20737	50790	26930	24707		29056	19454	40153	32113	28408
STAPLE-LOW RAYON	499.4222		80719	80454	90844	64817	55156		31106	49534	55700	44031	39032
STAPLE-ACETATE	499.4233		1048	6451	10003	6255	7004		591	4783	7433	6145	4323
SUBTOTAL ABOVE			57667	86904	106507	71072	62160		31697	44317	63139	50176	43355
WASTE ADVANCED & NOT ADVANCED	499.7400		12580	19775	9751	6000	2790		3713	2312	3684	2872	1358
NON CELLULOSIC FIBERS													
FILAMENT YARN*													
NYLON TEXTURED	410.0000 & 0000		20539	21392	44797	53773	69000		32204	28904	63092	72940	107090
HIGH TENACITY	410.0020		43790	31708 ^c	60287 ^c	57804 ^c	57400 ^c		43272	27057	43503	63037	72569
OTHER	410.0020		27144	11269	21224	24907	19424		59220	17282	31528	42082	37980
POLYESTER TEXTURED	410.0010		15595	29469	85570	114910	246152		10933	34340	105804	141835	286022
HIGH TENACITY	410.0012	}		6187 ^c	22407 ^c	24202 ^c	23407 ^c	}		6276	24507	27600	31474
OTHER	410.0014		35038	6780 ^d	8410 ^d	7495 ^d	11750 ^d		33752	6714	9591	8795	13220
OTHER TEXTURED	410.0014		7474	5071	9993	19005	11751		8201	5043	12103	24056	15085
OFFPS	410.0040			2747	1000	2520	2603			2924	1998	2990	3312
OTHER	410.0041			7804	4394	5050	5265			20745	12097	17181	18734
INCL. IN FILAMENT YARN ABOVE													
MONOFILAMENTS LESS THAN 60 DENIER													
MONOFILAMENTS 60 DENIER & OVER													
NYLON			1337						4610				
OTHER			14558						26248				
MONOFILAMENTS ALL DENIERS													
NYLON	499.0120			10500	14910	15407	7780			25173	30001	30834	20698
POLYESTER	499.0140			32042 ^e	21540 ^e	18985 ^e	7164 ^e			32013	24923	21987	11903
OTHER	499.0170			6209	9927	8605	6560			15875	18033	28815	23244
OTHER	499.0220 & 2270			1033	2688	3427	4555			2493	4566	5181	6635
SUBTOTAL ABOVE			182259	174417	290822	355325	463424		227193	216191	487980	488551	650982
STAPLE NYLON	499.4240		24300	26221	34857	29306	27550		17302	21834	29770	30141	33825
POLYESTER	499.4242		118940	218074	307240	497290	522081		53733	97225	165284	285737	361110
ACRYLIC	499.4245		74288	109139	181112	145172	136061		44288	63089	109404	103269	114359
OFFPS	499.4246			1873	6910	3275	1758			1245	6304	2371	1491
OTHER	499.4247			6859	9072	10749	17751			9580	10141	19391	25654
GROUPED FILAMENTS													
NYLON	499.4220			40	6239	10014	7282			66	8333	13816	11747
POLYESTER	499.4240			6449	37700 ^d	78560 ^d	54980 ^d			4290	26537	60067	50247
ACRYLIC	499.4250 & 4255			12314	19538	23281	27517			10188	14758	18389	20408
OTHER				125			32055			407			25940
SUBTOTAL ABOVE			242375	428946	658355	732473	790682		139861	243562	431434	529569	606175
WASTE ADVANCED & NOT ADVANCED													
NYLON	499.7420			11232	18034	14520	14938			4807	7514	9050	8003
POLYESTER	499.7430	}		48917	77423	61153	54117	}		12726	32029	25502	20814
ACRYLIC	499.7440		66090	3793	4807	2352	4795		15400	1142	1223	801	1552
OTHER	499.7460			24717	37478	38395	34415			6889	11950	13065	13433
TOTAL MAN-MADE FIBER ABOVE			591356	806638	1233748	1308308	1451037	446927	551490	969106	1152689	1374980	
TEXTILE GLASS FIBER			499.2700 & 0700	29204	29230	47494	54407	88034	26770	23498	98867	54269	41642
GRAND TOTAL ABOVE				620560	835868	1281242	1362715	1489971	467706	574988	1007973	1206958	1416622

SOURCE: U.S. Census Bureau

- a. Includes thrown, singles and plied yarn.
 b. Includes an undetermined amount of rayon tire cord and cord fabric.
 c. Includes an undetermined amount of non-cellulosic tire cord and cord fabric.

d. Includes zero twist yarns.

e. This figure is an obvious misclassification. Most of this poundage should be included in filament yarn.

f. Included in filament yarn above.

woven fabrics total breaks down (with the percentage change from 1980 in parentheses) as: cotton 3,957.1 million square yards (-13%); woolen & worsted 193.3 million square yards (+2%) and man-made fiber 11,715.8

million square yards (+7%).

Cotton broad woven fabric production during 1981 totaled 3,957.1 million square yards, 13% less than the

(Continued on page 80)

SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION

COUNTRY	A. CELLULOSIC YARN, MONOFIL & STRIPS				B. NON-CELLULOSIC TEXTILE YARN				C. NON-CELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NON-CELLULOSIC STAPLE+TOW			
	THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS		THOUS POUNDS		THOUS DOLLARS	
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981
ALBANIA	5199	2156	8060	2971	22543	20111	47006	48015	9486	7566	16180	14974	4928	6128	2972	1557	76705	76680	66294	68477
ALGERIA	54	15	54	25	1795	1000	2520	2814	495	259	1479	754	549	47	247	57	5209	5010	2514	4094
ANGOLA	125	27	116	54	2502	1578	5521	1855	1079	80	1419	146	158	99	37	60	768	479	827	518
ARGENTINA	262	147	504	220	2170	2865	5178	5160	510	458	754	821	557	481	354	517	7774	9615	6865	7075
ARMENIA	578	515	744	500	2008	5574	3547	4444	1050	718	1957	1994	275	122	195	89	584	5542	5159	4420
AUSTRIA	59	11	86	8	6091	647	745	1050	54	22	82	55	39	10	0	0	11	15	10	10
AZERBAIDZHAN	0	36	10	45	1546	1141	1715	1000	18	24	0	0	911	1141	617	819	209	374	180	605
BANGLADESH	42	6	41	0	455	517	922	1125	6	1	15	8	0	0	0	0	154	5	160	160
BELARUS (BYELORUSSIA)	0	0	0	0	19	60	25	178	21	20	60	54	0	0	0	25	28	0	17	0
BELGIUM	55	144	377	144	6523	2964	5855	6150	2270	2166	5874	5869	6050	8010	6050	6080	14588	1744	11818	9819
BELIZE	0	0	0	0	44	8	78	20	7	22	14	157	0	0	152	47	1754	964	1265	---
BENIN	55	10	60	10	200	195	549	524	0	0	170	181	20	20	0	20	109	220	178	568
BHUTAN	1	0	1	0	50	11	188	22	5	8	17	52	5	4	12	5	48	15	155	40
BOLIVIA	0	0	0	0	16	0	40	50	115	60	184	80	12	60	0	20	5	10	8	07
NORTH AMERICA	4375	2865	4541	3969	39174	40545	59878	70826	15484	11279	28251	24069	15615	15581	10724	9752	112629	108818	89290	97026
ARGENTINA	227	101	555	200	5082	5442	5491	4654	927	908	1674	1581	1514	1217	1140	1055	1067	9444	7209	7874
BOLIVIA	0	55	0	48	544	155	508	547	5	2	45	15	405	115	515	91	2501	1215	2102	1056
BRAZIL	788	9	1105	9	2057	1158	5880	1717	2878	1558	6045	9225	416	2	525	2	9620	8097	6570	6551
CHILE	200	174	277	251	1578	1009	2995	2511	249	219	620	695	264	1549	205	1294	4052	4992	3676	4678
COLOMBIA	170	4	162	6	1745	421	2408	720	748	792	2881	4577	2852	1799	1680	1157	7454	5548	4945	5054
COSTA RICA	521	401	570	581	1090	1080	2924	2784	968	985	1145	1052	1950	704	1540	507	8495	7560	5865	5634
CUBA	0	0	0	0	155	20	550	60	0	0	0	1	0	0	0	0	45	100	1	1
DOMINICAN REPUBLIC	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	170	165	147	198
EL SALVADOR	40	1	70	1	4252	4089	5509	4155	981	572	1059	1649	788	849	507	644	2588	2518	2209	2111
GUATEMALA	25	21	54	52	204	84	827	218	108	52	202	125	1519	186	1190	152	2542	859	1985	674
HONDURAS	554	51	505	55	9046	4745	5166	7450	1902	1205	8824	2402	10871	10555	8119	8287	1781	541	1427	712
MEXICO	0	0	0	0	8	2	0	5	0	1	0	4	0	0	0	0	20	0	0	1
SOUTH AMERICA	2134	835	3054	1503	19637	16166	30713	25316	8464	9594	17805	20124	20339	16937	14838	13147	47829	40299	35752	33463
BOLIVIA	8529	10780	7201	8559	22419	16869	44169	41524	21280	17871	52418	29250	150	599	194	154	21190	16807	26585	24540
DENMARK	1	1	1	1	094	280	512	545	142	259	160	220	24	2	40	5	12050	8080	11118	7675
FRANCE	54	49	26	110	2010	1585	9648	2629	1090	822	2421	1574	671	172	606	218	1877	1121	1618	1180
GERMANY (FEDERAL REPUBLIC OF)	40	520	149	1045	5204	1422	6079	2805	4562	2277	6944	4528	1076	1099	842	225	8590	958	6547	935
GREECE	19	55	78	145	15	90	18	112	228	128	500	400	82	0	75	0	1650	490	1200	554
IRELAND	0	2	10	4	6011	8904	8900	12425	590	458	499	628	2	7	2	15	815	642	860	1175
ITALY	67	1	118	2	2622	1870	3992	2555	1158	506	1552	1075	199	91	276	155	10888	1592	8029	1624
NETHERLANDS	5	1	9	2	1270	241	1090	248	781	255	879	245	270	0	516	147	7865	1885	5946	2005
UNITED KINGDOM	48	180	48	189	25758	9350	52940	17116	5659	6957	9146	8055	506	288	98	550	17872	4067	10000	5787
ALBANIA	0	1	0	5	964	150	811	269	164	17	559	90	0	125	7	185	1	2	0	2
ALGERIA	125	152	804	508	1	0	15	0	105	2	602	10	0	0	0	0	0	0	0	0
ANGOLA	851	0	980	0	1957	2825	2850	1848	739	16	680	40	40	2	58	3	2424	1504	2060	1122
ARGENTINA	0	0	0	0	11	45	40	98	245	0	426	0	0	0	15	0	69	545	40	444
AUSTRIA	0	0	0	0	0	846	0	422	0	0	0	0	0	0	0	0	0	0	0	0
BELGIUM	4	1	12	4	104	0	100	0	90	0	87	0	0	0	0	0	4	80	5	85
BOLIVIA	0	0	0	0	1558	745	1070	980	50	5	15	14	71	89	70	67	574	585	505	554
BRAZIL	485	55	761	85	905	51	1487	60	4170	218	5048	101	0	0	0	0	8675	429	5010	210
BURUNDI	0	2	0	2	242	70	589	124	89	5	188	20	20	0	52	0	915	214	824	205
BURUNDI	0	0	0	0	0	0	0	0	0	0	0	15	0	0	0	0	890	0	620	0
CHILE	2	74	2	17	1510	1655	1570	701	2045	1005	2672	1100	85	24	74	80	5685	1297	4081	1202
COLOMBIA	0	4	50	10	617	97	815	171	1810	888	1884	1040	100	53	79	89	3015	1110	2938	1079
COSTA RICA	97	4	67	9	1071	1160	1442	1805	52	24	107	145	60	9	45	15	1955	1870	1718	2222
CUBA	0	0	0	0	1	1041	5	1475	15918	11588	16685	15550	0	0	0	0	1544	0	915	4
DOMINICAN REPUBLIC	1476	1542	2155	1855	578	0	890	0	0	1	0	5	05	0	120	0	2515	0	2800	0
EL SALVADOR	0	0	0	0	0	1555	0	1187	1422	714	1658	1207	0	0	0	0	674	1484	894	920
GUATEMALA	0	0	0	0	8	0	1	0	0	24	1	29	0	0	0	0	0	0	0	0
EUROPE	11776	13155	12145	12006	71554	48689	101348	78177	61886	44059	82711	63081	5055	1374	3014	1632	105974	44566	97884	53089

See footnotes below.

SELECTED U.S. EXPORTS BY COUNTRY OF DESTINATION (Continued)

COUNTRY	A. CELLULOSIC YARN, MONOFIL & STRIPS				B. NON-CELLULOSIC TEXTILE YARN				C. NON-CELL. INDUSTRIAL YARN, MONOFIL & STRIPS				D. CELLULOSIC STAPLE+TOW				E. NON-CELLULOSIC STAPLE+TOW			
	THOUS. POUNDS		THOUS. DOLLARS		THOUS. POUNDS		THOUS. DOLLARS		THOUS. POUNDS		THOUS. DOLLARS		THOUS. POUNDS		THOUS. DOLLARS		THOUS. POUNDS		THOUS. DOLLARS	
	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981	1980	1981
AUSTRALIA	7,476	1554	2508	2297	7868	15682	15797	29004	1863	1655	9951	4089	779	549	1098	580	17481	17612	16450	10055
BANGLADESH	0	0	0	0	84	704	62	618	0	16	0	10	0	0	0	0	0	0	0	0
CHINA (PEOPLE'S REP. OF)	2574	4140	8960	8462	82210	151240	84297	177872	9085	6705	7467	10598	10	2	5	5	51408	46500	194466	514984
HONG KONG	89	0	88	0	825	52705	1020	8074	545	515	703	1196	7407	4298	6917	2920	19155	12578	12005	8865
INDIA	0	0	0	0	5644	20927	4459	20899	1055	2009	1146	2844	2720	274	1672	250	1784	504	1666	527
INDONESIA	0	84	0	85	120	248	175	547	161	47	554	95	9959	5900	2496	2672	1620	2512	1216	2072
IRAN	0	0	0	0	79	125	261	654	0	0	0	2	0	0	0	0	0	0	0	0
ISRAEL	57	42	106	62	6414	5688	6940	3910	6654	6535	7261	7290	108	58	45	24	2155	1762	1778	1406
JAPAN	75	121	125	184	2806	5651	5962	9825	16700	15855	14663	18780	706	1697	457	919	10681	7771	9687	7600
JORDAN	0	0	0	0	108	454	172	425	11	0	18	0	0	0	0	0	2	0	0	1
KOREA (REP. OF)	1618	779	2428	955	610	5408	1284	5241	568	585	1155	894	922	7895	795	4867	2517	3832	1651	3065
LIBYAN	0	0	0	0	457	207	449	298	42	9	65	19	0	2	0	10	108	105	114	115
MALAYSIA	152	60	86	78	0	0	0	0	89	74	148	115	115	0	72	0	1527	1504	1224	1100
NEW GUINEA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	109	0	119	0
NEW ZEALAND	24	25	74	90	586	1207	1214	5164	185	298	698	877	1	65	1	98	2525	1000	2476	1454
PAKISTAN	0	2	0	0	10	154	17	260	1	12	13	20	159	94	120	112	552	154	214	141
PHILIPPINES	108	28	120	52	358	612	416	840	286	512	472	480	11652	7476	7172	4418	10164	5425	1692	4514
SAUDI ARABIA	2	0	8	0	7	150	55	295	253	244	568	620	0	0	0	0	2	295	14	150
SINGAPORE	20	20	52	27	20	38	44	5	65	53	173	77	115	1555	108	874	524	299	826	572
SYRIA	0	0	0	0	1044	967	1056	1052	0	40	95	37	0	0	0	0	15	0	15	0
TAIWAN	0	198	4	205	676	752	845	717	2705	2605	2857	2773	585	401	462	500	5654	56412	26015	27885
THAILAND	158	125	248	275	8	2	12	4	94	115	253	695	288	0	256	0	1654	2065	1298	1854
OTHER	8	0	4	0	47	52	41	40	165	11	169	20	0	0	2	0	106	56	105	57
ASIA & OCEANIA	6658	7151	9681	9752	78214	236603	95286	290928	34358	35531	41295	50185	29512	27592	19668	18086	422932	558724	279214	395176
ALGERIA	0	0	0	0	5255	128	7619	228	26	2764	41	4155	540	0	281	0	0	0	0	0
EGYPT	0	0	0	0	4573	6655	4129	8420	2705	929	2746	927	0	0	0	0	2919	574	2187	527
LIBYA	0	0	0	0	191	0	456	0	3	1	23	7	21	22	20	22	132	494	88	515
MOROCCO	644	79	871	108	516	497	804	442	1555	52	1245	75	245	8	584	7	4270	448	5100	632
Mozambique	0	0	0	0	608	249	1077	524	0	0	0	2	0	0	0	0	0	0	0	0
NGERIA	58	0	46	0	6179	2527	7769	5526	91	290	269	574	0	0	0	0	2555	25	1985	40
SOUTH AFRICA	1524	641	1785	1070	2786	4544	5896	6072	2894	2558	5096	5205	1755	652	1247	705	53254	55699	10920	25277
TUNISIA	0	0	0	0	162	0	153	0	0	0	0	0	0	0	0	0	20	5	18	12
Zaire	0	0	0	0	158	0	208	0	0	0	0	0	0	0	0	0	0	0	0	0
ZIMBABWE	0	0	0	0	2	1	4	2	2	1	15	7	0	14	0	4	2	1641	2	725
OTHER	0	0	0	0	6	159	8	198	12	67	28	157	0	0	0	0	158	98	140	70
AFRICA	2006	720	2692	1178	19356	14518	25913	19212	7196	6442	8051	9067	2551	676	1932	738	43110	38274	27449	27421
GRAND TOTAL	26929	24706	32113	28408	227935	356521	310438	484459	127388	106905	178113	166524	71072	62160	50176	43555	732474	790681	529569	606175

The commodity numbers are:

A. 509.0110, 2210, 310.0000 & 0026

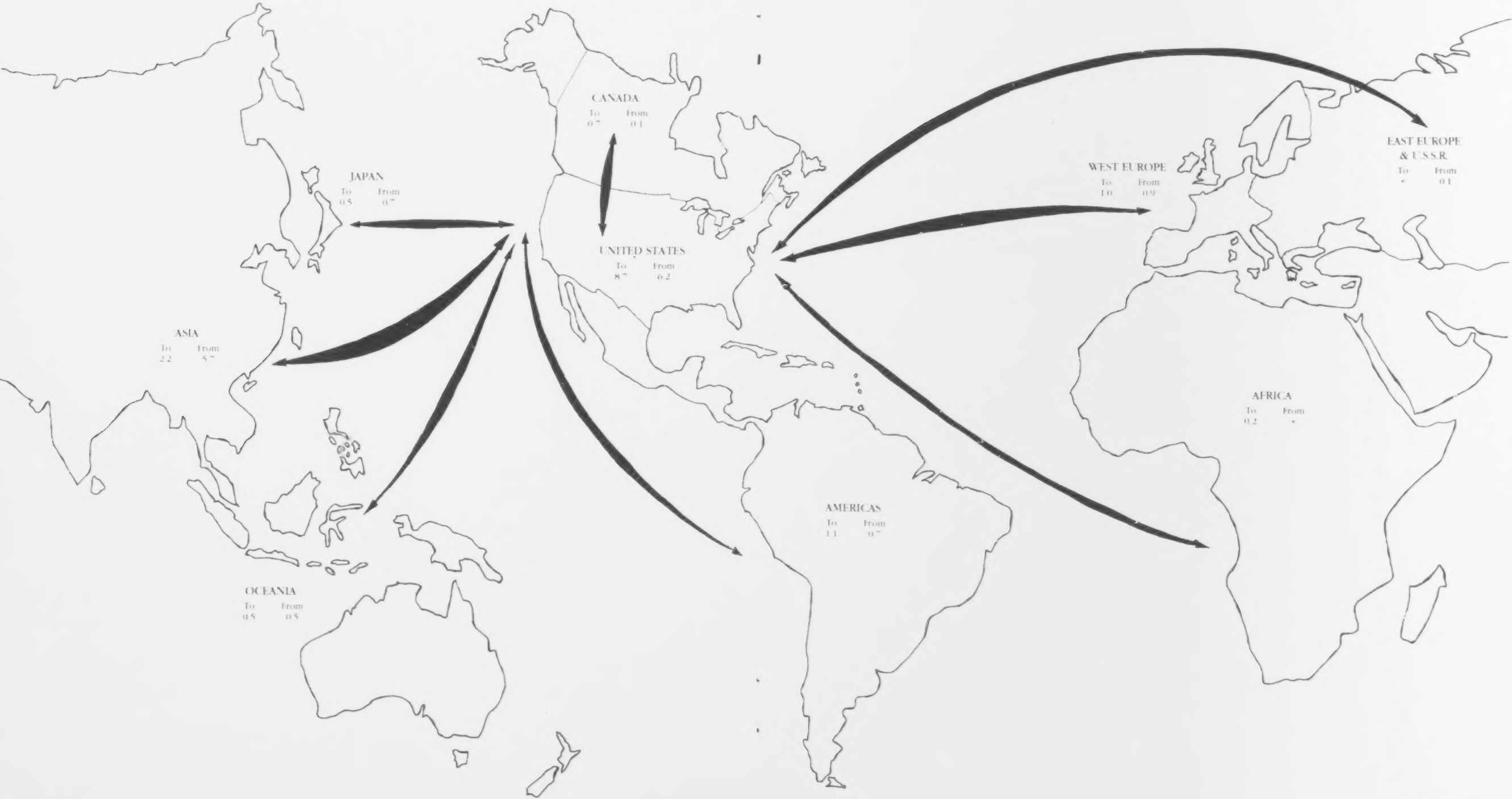
B. 310.0008, 0009, 0010, 0014, 0029, 0054, 0060 & 0064

C. 509.0120, 0140, 0170, 2220, 2270, 310.0027 & 0052

D. 509.4219 & 4222

E. 509.5220, 5240, 5250, 5255, 5260, 4242, 4245, 4246 & 4247

U.S. TRADE IN TEXTILES — 1981 (BILLION DOLLARS)



SOURCE: U.S. DEPARTMENT OF COMMERCE

**U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES,
COTTON MANUFACTURES & WOOL MANUFACTURES**
THOUSAND POUNDS

PRODUCTS	YEAR 1979			YEAR 1980			YEAR 1981		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
RAYON*ACETATE									
YARN-MONOFILAMENT ^b	14,271	40,730	17,750 E	8,402	20,540	18,628 E	10,730	24,707	14,998 E
STAPLE-TOYK	10,929	100,507	89,578 E	11,504	7,107	4,397 E	10,705	152,106	45,407 E
WASTE	804	1,551	771 E	540	3,000	2,460 E	510	2,780	2,270 E
SUBTOTAL ABOVE	50,603	146,848	116,245 E	18,947	104,092	85,145 E	28,001	89,666	61,665 E
NON CELLULOSIC FIBERS									
YARN-MONOFILAMENT ^b	20,004	200,822	180,818 E	10,113	355,425	345,312 E	18,934	465,424	446,490 E
STAPLE-TOYK	40,810	168,545	127,735 E	45,508	742,473	696,965 E	60,515	700,682	640,167 E
WASTE	21,320	147,745	126,425 E	21,840	110,420	88,580 E	49,828	107,205	57,377 E
SUBTOTAL ABOVE	80,449	1,086,900	1,006,451 E	76,728	1,204,216	1,127,488 E	129,279	1,461,471	1,232,092 E
TOTAL FIBER ABOVE^b	111,052	1,233,748	1,122,696 E	95,675	1,308,308	1,212,633 E	157,280	1,451,037	1,293,757 E
MAN-MADE FIBER MANUFACTURES^c									
SEVEN TYPES & BLEND ^b	10,015	14,252	4,237 E	17,921	14,103	3,818 E	8,740	11,046	2,306 E
SEVEN TYPES	22,698	84,181	61,483 E	22,891	52,847	29,956 E	28,470	45,095	16,625 E
THREADED & RAYON	2,015	8,408	6,393 E	2,504	7,404	4,900 E	2,854	5,522	2,668 E
THREADED & RAYON	97	87,008	86,911 E	47	110,914	110,867 E	277	48,155	47,878 E
WOLLEN FABRIC	14,977	226,494	211,517 E	17,285	240,709	223,424 E	35,382	208,478	173,096 E
KNIT FABRICS	8,011	10,445	2,434 E	5,085	4,252	833 E	2,140	2,675	535 E
NARROW FABRICS	8,567	12,543	3,976 E	8,147	12,471	4,324 E	8,705	20,210	11,505 E
APPROX. KNIT	184,407	100,472	83,935 I	187,145	127,008	60,137 I	284,704	110,040	174,664 I
WOLLEN KNIT	178,111	100,472	77,639 I	180,770	127,008	53,762 I	282,102	110,040	172,062 I
WOLLEN TURNINGS	48,817	15,250	33,567 E	52,723	11,540	41,183 E	68,640	84,381	15,741 E
OTHER	10,015	14,252	4,237 E	17,921	14,103	3,818 E	8,740	11,046	2,306 E
TOTAL MANUFACTURES	524,975	596,583	71,608 I	540,644	771,545	230,901 E	639,076	637,731	1,345 I
TOTAL MAN-MADE FIBER & MANUFACTURES	636,025	1,830,331	1,193,306 E	636,319	2,079,853	1,443,534 E	796,356	2,088,768	1,292,412 E
COTTON MANUFACTURES^d	746,096	477,960	268,136 I	810,930	525,094	285,836 I	961,900	367,299	594,601 I
WOOL MANUFACTURES^e	109,545	15,592	93,953 I	103,288	24,264	79,024 I	113,626	12,323	101,303 I

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census. The man-made cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. The fibers included are shown under "Total Man-Made Fiber Above" on pages 68 and 75 herewith.

c. Man-made fiber equivalent.

d. Raw cotton equivalent. Data are similar to those on page 45 of the March 1982 *Organon*.

e. Raw wool content. The data differ from those on page 45 of the March 1982 *Organon* to the extent that noils and waste are included here.

SUMMARY OF U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBERS & MANUFACTURES
MILLION POUNDS

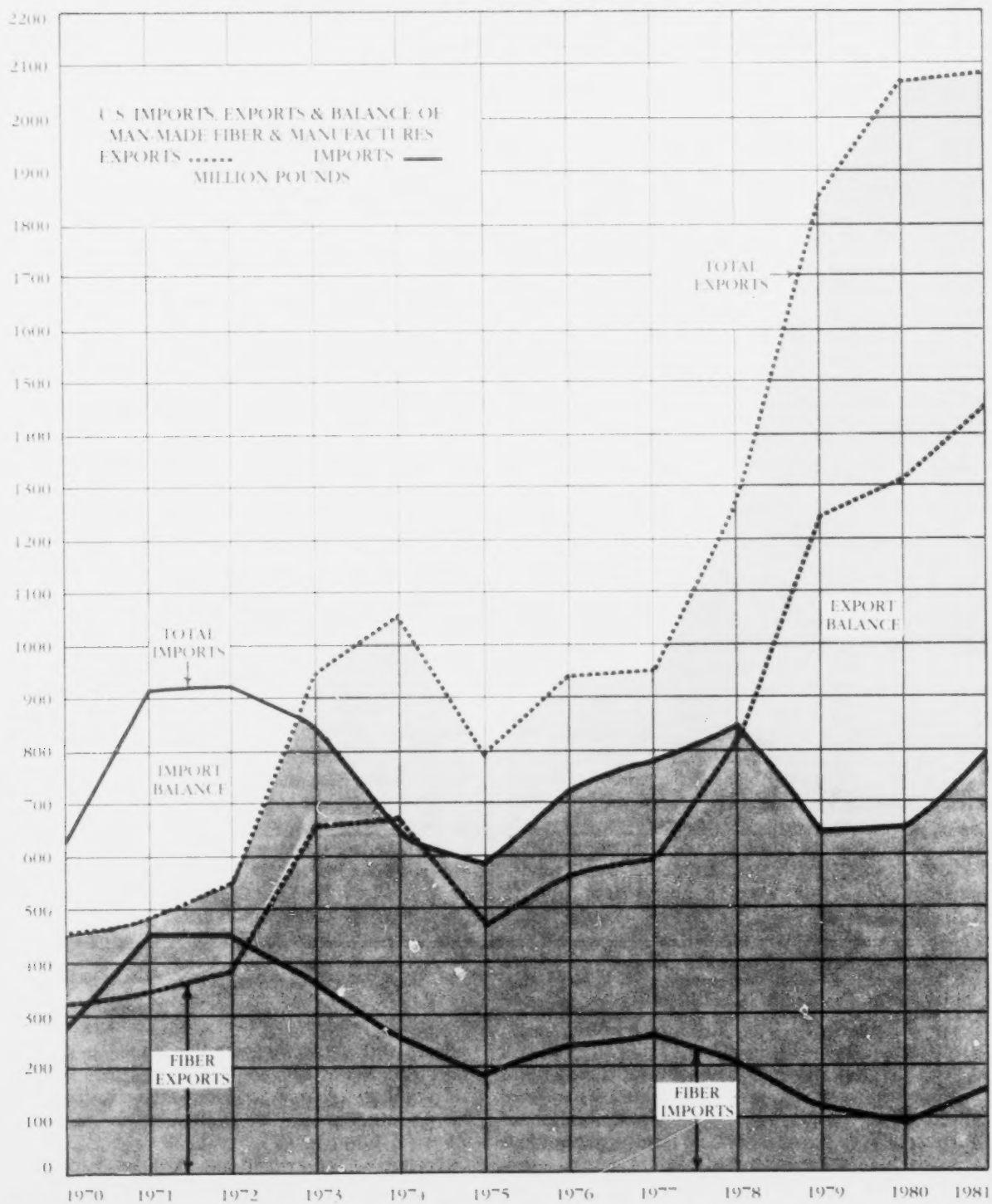
	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
IMPORTS												
TOTAL FIBER ^a	245.1	451.2	458.0	466.5	259.7	181.3	240.5	250.8	208.0	311.0	95.7	157.3
TOTAL MANUFACTURES ^b	520.8	451.1	480.5	405.8	571.5	400.4	470.5	540.7	644.0	525.0	540.0	650.1
TOTAL IMPORTS	614.4	902.3	919.1	831.8	631.0	581.7	710.0	791.2	848.5	636.0	636.3	796.4
EXPORTS												
TOTAL FIBER ^a	814.5	855.7	584.2	652.0	658.0	723.0	570.0	501.3	800.0	1245.7	1408.3	1451.1
TOTAL MANUFACTURES ^b	147.1	140.7	177.0	288.2	400.7	522.3	352.2	407.0	441.7	500.0	771.5	937.7
TOTAL EXPORTS	460.6	480.4	561.8	940.2	1049.3	795.3	922.2	958.9	1248.3	1830.5	2079.8	2088.8
BALANCE^c	153.8 I	421.9 I	357.3 I	108.4 E	18.5 E	215.0 E	212.2 E	137.7 E	598.8 E	1194.5 E	1443.5 E	1202.4 E
U.S. PRODUCTION ^d	5140.2	5877.8	6001.2	7078.0	7608.7	6870.0	7445	8525	8007.1	9022.2	8882.2	8984.5
U.S. NET AVAILABLE	5284.0	6299.7	7348.5	7800.0	7280.4	6665.0	7542.8	8547.4	8507.3	8427.0	7448.7	7092.1
IMPORTS AS % OF PRODUCTION	12.0	15.4	13.1	10.4	8.2	8.5	9.2	9.2	9.5	6.6	7.2	8.9
EXPORTS AS % OF PRODUCTION	9.0	8.2	8.0	11.8	13.6	11.6	11.9	11.2	13.9	19.0	23.4	23.2

a. As shown in Total Fiber Above in the table above and earlier.

b. As shown in Total Manufactures in the table above and earlier.

c. E means a net export balance; I means a net import balance.

d. Production means the production of yarn, monofilaments, staple-fiber (excluding textile glass) and producers' shipments of waste from page 20 of the February 1982 *Organon*.



WORLD TRADE IN TEXTILE FIBERS (SITC 26, REVISED)

MILLION DOLLARS (F.O.B.)

FROM \ TO		UNITED STATES	EUROPE	JAPAN	CENTRALLY PLANNED ECONOMIES			OTHER AMERICAS	ASIA & OCEANIA	AFRICA	WORLD TOTAL ^c
					ASIA ^a	EUROPE ^b	USSR				
UNITED STATES	1975		245	210	82	18	1	154	575	70	1545
	1976		240	209	8	12	1	105	654	71	1420
	1977		542	517	50	12	1	185	895	114	1962
	1978		587	507	204	51	8	208	1005	95	2500
	1979		574	684	419	52	7	508	1080	120	3055
	1980		715	548	895	50	5	520	1200	123	3950
EUROPE	1975	49	1755	18	25	142	52	55	154	95	2290
	1976	47	2180	28	55	152	29	62	142	124	2788
	1977	68	2105	25	52	159	20	50	251	141	2925
	1978	67	2494	55	60	169	56	62	244	154	3515
	1979	65	2982	40	57	252	49	62	255	190	3808
	1980	58	2987	20	117	254	126	74	280	267	4184
JAPAN	1975	15	45		66	15	8	21	207	52	400
	1976	10	40		80	7	8	25	280	50	502
	1977	18	50		77	12	6	25	335	28	530
	1978	15	47		74	11	4	15	372	20	557
	1979	10	58		65	18	0	22	504	25	561
	1980	7	57		174	12	8	22	494	29	702

SOURCE: Monthly Bulletin of STATISTICS, United Nations, February 1982.

German Democratic Republic.

a) Excludes the inter trade of these countries.

c) Totals may not add due to rounding errors.

b) Excludes trade between the Federal Republic of Germany and the

WORLD TRADE IN TEXTILE YARN AND FABRICS (SITC 65, REVISED)

MILLION DOLLARS (F.O.B.)

FROM \ TO		UNITED STATES	EUROPE	JAPAN	CENTRALLY PLANNED ECONOMIES			OTHER AMERICAS	ASIA & OCEANIA	AFRICA	WORLD TOTAL ^c
					ASIA ^a	EUROPE ^b	USSR				
UNITED STATES	1975		588	51	0	9	7	690	200	67	1625
	1976		695	58	0	7	10	841	258	75	1970
	1977		646	53	1	4	23	882	250	78	1950
	1978		711	71	4	6	5	1010	302	91	2222
	1979		1170	115	54	15	14	1226	450	110	3182
	1980		1200	110	154	15	14	1450	552	219	3625
EUROPE	1975	580	11158	217	17	660	540	565	870	917	14950
	1976	440	12498	212	27	642	515	560	1010	969	16554
	1977	557	13893	220	29	675	501	570	1351	1121	18570
	1978	691	16997	529	41	805	278	624	1476	1290	22445
	1979	695	21015	482	55	884	574	697	1552	1492	27057
	1980	741	22012	598	52	895	689	690	1827	1823	29053
JAPAN	1975	262	149		66	58	152	250	1098	545	2925
	1976	514	168		115	58	102	244	1937	552	3502
	1977	406	225		154	49	157	285	2064	541	3712
	1978	425	241		168	29	96	245	2540	288	3842
	1979	550	279		145	47	155	255	2574	251	4001
	1980	580	385		277	65	209	274	3178	335	5102

SOURCE: Monthly Bulletin of STATISTICS, United Nations, February 1982.

German Democratic Republic.

a) Excludes the inter trade of these countries.

c) Totals may not add due to rounding errors.

b) Excludes trade between the Federal Republic of Germany and the

(Continued from page 73)

4,537.2 million square yards produced during 1980. Toweling, wash- and dishcloths increased 3%, to 489.8 million square yards in 1981 and duck and allied fabrics were marginally above their 1980 levels. On a yardage basis, the biggest decline was in the print cloth category, which fell 281.8 million square yards to 1,438.8 million

square yards. On a percentage basis, the biggest decline was recorded by fine cotton fabrics, which fell 42% to 64.3 million square yards, followed by corduroy fabrics which fell 35% to 272.6 million square yards during 1981.

Production of woolen and worsted fabrics during 1981 totaled 193.3 million square yards, an increase of

WORLD TRADE IN CLOTHING (SITC 84, REVISED)
MILLION DOLLARS (F.O.B.)

FROM \ TO		UNITED STATES	EUROPE	JAPAN	CENTRALLY PLANNED ECONOMIES			OTHER AMERICAS	ASIA & OCEANIA	AFRICA	WORLD TOTAL ^c
					ASIA ^a	EUROPE ^b	USSR				
UNITED STATES	1975		80	12	0	1	0	250	55	14	421
	1976		111	18	0	2	0	515	47	15	501
	1977		100	24	0	1	0	548	48	10	670
	1978		157	45	0	8	0	402	48	17	719
	1979		206	70	0	4	0	482	51	15	958
	1980		415	78	0	3	0	610	72	24	1219
EUROPE	1975	517	6787	105	0	118	251	177	201	204	8147
	1976	571	7480	115	0	122	214	180	250	349	9000
	1977	449	8758	151	1	150	171	205	309	335	10610
	1978	522	10770	201	0	157	188	215	448	501	12877
	1979	518	13089	298	1	194	175	233	523	404	16054
	1980	602	15401	285	1	218	457	257	610	572	18275
JAPAN	1975	157	50		0	1	28	18	52	87	352
	1976	218	48		0	1	52	21	64	52	416
	1977	246	51		1	0	99	19	77	50	405
	1978	274	62		0	0	29	10	78	27	486
	1979	165	50		2	1	15	15	77	24	351
	1980	209	90		5	1	27	15	123	32	500

SOURCE: *Monthly Bulletin of STATISTICS*, United Nations, February 1982

a) Excludes the inter trade of these countries

b) Excludes trade between the Federal Republic of Germany and the

German Democratic Republic

c) Totals may not add due to rounding errors.

2% over the 1980 level. Production of fabrics for men's & boys' clothing increased 6½% (to 108.5 million square yards) and for women's and children's clothing increased 1½% (to 75.6 million square yards) in 1981. However, production of woolen and worsted nonapparel fabrics declined 26% during 1981, to 9.2 million square yards.

Man made fiber broad woven fabric production for 1981 totaled 11,715.8 million square yards, 7% more than the 10,972.5 million square yards produced during 1980. For 1981, most categories of spun yarn fabrics and combination fabrics recorded gains, while most filament yarn fabrics were lower. Polyester-cotton blend fabrics showed the largest yardage gain during 1981, increasing 173.6 million square yards to 4,516.5 million square yards followed by polyester-rayon blend fabrics, which increased 142.1 million square yards to 738.4 million square yards. The largest year-to-year percentage gain was recorded by rayon or acetate warp fabrics, which increased 60% to 122.2 million square yards.

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS

During 1981, broad woven fabric mills consumed 4,634.0 million pounds of yarn according to the U.S. Census Bureau, a decrease of 3% from the 1980 consumption level of 4,772.0 million pounds. Fourth quarter 1981 yarn consumption totaled 1,051.9 million pounds, 8½% less than the third quarter level of 1,152.0 million pounds and 13% below the corresponding 1980 quarter.

Filament yarn consumption during 1981 totaled 1,521.7 million pounds, 4½% above the 1,457.4 million pounds consumed during 1980. Consumption of rayon+acetate filament yarn increased 11% (to 140.1 million pounds) and use of polyester filament yarn rose 16% (to 539.2 million pounds) during 1981. These increases were enough to offset the consumption declines in the other filament yarn categories.

Fourth quarter 1981 filament yarn consumption stood at 340.3 million pounds, 9½% less than the 375.7 million pounds used during the previous quarter and 15% below the usage of the corresponding 1980 quarter. During the October-December 1981 quarter, all filament yarn categories declined as compared with the previous quarter. Compared with fourth quarter 1980, rayon+acetate filament yarn was the only category to show an increase in the last 1981 quarter.

1981 consumption of spun yarn, at 3,004.8 million pounds, was 6½% less than the 3,206.0 million pounds used during 1980. Declines of 8½% in spun cotton yarn usage (to 1,242.6 million pounds) and spun polyester-cotton yarn usage (to 1,256.2 million pounds) offset consumption gains in spun wool, spun polyester, spun rayon and/or acetate and spun polyester-wool yarns.

Fourth quarter 1981 use of spun yarns in broad weaving mills, at 688.8 million pounds, was 8% below third quarter 1981 levels and 12% less than the 783.0 million pounds consumed during the October-December 1980 quarter. Again, as compared with the previous quarter, fourth quarter consumption of all categories of spun yarn declined.

YARN CONSUMED IN BROAD WOVEN FABRIC MILLS^a

MILLION POUNDS

YARN	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT												
RAYON ACETATE & TRIMETATE	54.1	55.4	27.6	51.0	128.1	55.4	55.9	54.8	54.0	140.1		
NYLON	104.4	88.2	81.7	94.0	468.3	96.5	88.8	90.0	84.4	459.7		
POLYESTER	124.8	110.8	105.0	125.4	465.0	159.0	145.5	140.2	117.7	562.4		
TEXTILE GLASS	54.8	40.7	55.5	47.7	198.7	42.0	47.0	40.2	40.5	169.7		
OLEFIN & SARAN	74.0	67.9		112.0	353.9							
ALL OTHER ^b	4.0	2.8			16.8							
TOTAL FILAMENT YARN ABOVE	395.7	538.8	521.6	401.3	1457.4	420.8	584.9	575.7	540.3	1521.7		
SPUN YARN												
100% COTTON	504.8	548.0	511.7	551.2	1955.7	522.3	523.5	505.1	295.7	1246.6		
100% WOOL	9.4	10.0	6.5	8.4	34.3	12.5	12.4	7.5	6.9	49.3		
100% ACRYLIC	6.7	8.0	7.4	6.5	28.6	5.0	6.0	5.1	4.1	20.8		
100% POLYESTER	45.4	55.1	50.8	27.8	159.1	40.5	49.8	41.7	58.1	190.1		
RAYON AND/OR ACETATE ^b	29.7	22.0	21.4	24.0	97.1	27.8	27.0	24.0	23.1	101.9		
POLYESTER COTTON BLENDS ^c	459.0	455.5	424.5	555.2	1894.2	550.5	528.0	518.0	279.1	1265.6		
POLYESTER WOOL BLENDS ^c	5.1	6.0	5.5	5.0	21.6	6.4	7.0	7.8	6.2	27.4		
POLYESTER RAYON BLENDS ^c	45.4	49.4	46.9	45.7	157.4	47.8	49.1	41.0	47.6	155.5		
TOTAL SPUN YARN ABOVE	854.1	824.6	744.3	783.0	3206.0	783.2	783.4	749.4	688.8	3004.8		
ALL OTHER YARNS^d	28.6	24.0	24.5	51.5	108.6	28.7	29.1	26.9	22.8	107.5		
GRAND TOTAL	1278.4	1187.4	1090.4	1215.8	4772.0	1232.7	1197.4	1152.0	1051.9	4634.0		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. Includes data from all types of broad woven fabric mills, i.e., cotton, man-made, woolen & worsted and tire cord & fabric mills.

b. Includes 100% spun rayon and acetate as well as rayon and/or

acetate cotton blends, regardless of blend level.

c. Regardless of blend level.

d. All Other Yarns includes spun nylon, other blends, silk and paper.

TIRE CORD & TIRE CORD FABRICS PRODUCTION

MILLION POUNDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
TIRE CORD & TIRE FABRICS												
NYLON	76.0	58.2	57.0	72.5	263.7	86.9	76.4	88.9	72.4	324.6 ^a		
POLYESTER	47.0	41.4	45.0	48.5	181.9	55.2	55.1	56.8	50.4	217.5 ^a		
RAYON	6.1	5.5		7.9	19.5	4.0	4.7	4.2	2.9	15.8		
GLASS	5.1	4.1			19.8	5.1	6.5	7.5	5.2	24.3 ^b		
CHAFFER & OTHER ^c	7.7	6.4	7.6	8.2	29.9	11.1	7.9	9.4	10.0	38.4 ^b		
TOTAL TIRE CORD & TIRE CORD FABRICS	141.9	105.4	108.3	136.9	492.5	162.3	149.4	165.5	140.9	618.1		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*.

a. 25 to 50 percent of this item is estimated by the Census.

b. 10 to 25 percent of the item is estimated by the Census.

c. Includes a nominal amount of cotton and some steel.

BROAD WOVEN GOODS PRODUCTION MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
COTTON FABRICS	1249.1	1206.5	1002.3	1079.3	4537.2	994.8	988.2	968.5	1005.6	3957.1		
TRUCK & ALLIED FABRICS	28.5	25.0	21.8	17.2	93.1	19.5	26.0	25.6	23.1	94.2		
SHEETING & ALLIED FABRICS	209.7	205.8	156.3	181.1	752.9	181.6	178.0	172.1	179.0	710.7		
PRINT CLOTH YARN FABRICS	409.1	455.0	376.2	419.7	1720.6	352.9	354.6	340.4	410.9	1458.8		
DENIMS	167.2	170.2	151.0	148.9	637.3	146.1	150.7	155.3	138.2	590.3		
TOWELING, WASH & DISH CLOTHS	126.5	120.1	106.5	122.5	475.6	127.8	125.1	115.9	121.0	489.8		
BLANKETING & OTHER NAPPIED FABRICS	32.0	27.1	24.2	27.3	110.6	25.9	26.6	22.5	20.3	95.3		
FINE COTTON FABRICS	54.0	40.8	29.2	17.3	141.4	15.7	16.9	17.2	16.5	66.3		
CORD ROYS	125.6	115.2	93.3	87.8	419.9	72.6	72.7	67.3	60.0	272.6		
UPHOLSTERY & TAPESTRY	0.2	0.7	7.3	6.9	30.1	5.9	7.0	7.2	6.3	26.5		
VELVETS	3.9	3.3	3.1	3.0	13.4	2.1	3.1	3.2	2.9	11.3		
DRAPERY & BEDSPREAD FABRICS	20.2	20.3	11.9	14.7	67.1	21.3	16.9	15.3	13.0	66.7		
ALL OTHER FABRICS	26.2	24.7	21.5	32.8	105.2	25.3	30.6	26.3	14.3	96.6		
WOOLEN & WORSTED FABRICS^a	55.4	55.8	37.3	40.7	189.2	58.4	56.5	41.0	37.4	193.3		
MEN'S & BOYS' CLOTHING	32.0	30.3	19.2	20.6	102.1	32.9	32.7	22.0	20.9	108.5		
WOMEN'S & CHILDREN'S CLOTHING	19.2	22.3	16.2	16.9	74.6	29.2	22.8	17.7	14.9	75.6		
NONAPPAREL FABRICS	4.2	3.2	1.9	3.2	12.5	5.3	1.0	1.3	1.6	9.2		
MAN-MADE FABRICS	2780.8	2663.3	2516.9	3011.5	10972.5	2994.8	2963.3	2941.3	2816.4	11715.8		
100% FILAMENT YARN FABRICS												
100% RAYON	6.3	6.7	6.0	7.1	26.1	7.1	6.3	6.0	5.0	24.5		
COMBINATIONS (CHIEFLY ACETATE)	12.4	12.5	11.9	13.9	50.7	14.1	14.0	13.0	11.5	52.6		
100% NYLON	169.0	156.7	152.4	146.9	662.0	141.8	130.0	137.6	125.7	535.1		
100% POLYESTER	248.0	278.4	258.8	300.7	1086.5	284.3	301.2	293.6	252.9	1132.0		
COMBINATIONS (CHIEFLY POLYESTER)	23.9	22.4	24.0	21.2	91.5	21.5	20.0	21.9	23.3	86.7		
TEXTILE GLASS	115.2	97.9	85.5	93.2	391.8	106.6	92.8	99.1	87.6	386.1		
ACETATE	81.3	91.5	87.3	98.5	358.6			96.5	98.7			
OTHER	319.8	280.0	302.3	361.7	1373.4	460.5	331.2	311.3	296.2	1699.4		
100% SPUN YARN FABRIC & BLENDS												
RAYON & ACETATE	96.2	90.1	84.8	100.3	351.4	173.1	176.8	142.0	92.0	584.9		
ACRYLIC & MODACRYLIC	3.9	3.3	3.2	3.7	18.1	2.9	3.7	3.2	2.5	12.3		
100% POLYESTER	58.3	51.8	53.3	54.8	218.2	78.3	77.1	73.1	73.9	302.4		
POLYESTER WITH COTTON	111.4	110.5	101.0	111.0	434.2	111.3	109.7	112.5	118.5	450.5		
POLYESTER WITH RAYON	147.7	140.4	141.2	167.0	596.3	177.2	180.9	193.7	176.6	718.4		
POLYESTER WITH OTHER FIBERS	16.0	7.5	14.5	15.4	54.0	15.3	15.6	22.5	19.3	72.8		
POLYESTER WITH WOOL ^b	11.3	11.1	13.3	13.5	50.3	12.6	13.3	13.5	11.7	50.1		
NYLON	5.2	6.1	5.2	6.3	22.8	8.6	12.5	10.5	11.7	33.3		
BLANKETING ^c	29.9	31.7	31.6	28.7	121.7	24.6	28.1	14.3	11.7	78.7		
ALL OTHER	12.3	10.1	9.0	12.4	43.8	3.6	3.6	4.5	3.5	15.2		
COMBINATIONS & MIXTURES ^d												
FILAMENT RAYON OR ACETATE WARE	14.2	15.0	18.3	28.8	76.4	31.3	33.1	30.5	27.2	122.2		
FILAMENT POLYESTER WARE	71.2	62.6	64.3	87.7	286.0	82.3	76.2	68.7	59.8	287.0		
OTHER FILAMENT WARE	8.3	4.7	2.2	3.1	18.4	3.3	2.0	2.3	2.9	10.5		
OTHER	121.8	98.6	75.3	97.3	393.0	129.3	140.0	163.7	149.5	582.5		
SPECIALTY FABRICS												
DRAPERY & BEDSPREAD	54.1	51.7	48.9	43.7	198.4	65.0	60.3	50.3	51.5	227.2		
SILK	2.0	1.3	1.3	1.5	6.1	1.5	1.5	1.8	1.8	6.3		
VELVETS	3.1	3.3	3.9	3.9	16.2	3.8	3.9	3.3	2.9	14.0		
UPHOLSTERY & TAPESTRY	29.9	25.0	18.2	20.7	97.1			30.2	23.6	113.6		
OTHER ^e	2.7	3.0	2.8	2.2	10.7	28.9	30.9	30.2	23.6	113.6		
TOTAL BROAD WOVEN FABRICS ABOVE	4085.3	3925.6	3556.5	4131.5	15698.9	4048.0	4008.0	3950.8	3859.4	15866.2		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ-22T*

a. Felts are not included.

b. Includes polyester blanketing for 3rd & 4th Q 1981 and 1981 total.

c. Acrylic-modacrylic and polyester. Does not include polyester for 3rd & 4th Q 1981 and 1981 total.

d. Includes filament & spun yarn fabrics.

e. 100% or chiefly man-made fibers, chief fiber not specified. Also includes small poundages of tie, twisted paper yarn and girdle & swimwear fabrics.

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION

MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% FILAMENT YARN FABRICS	974.5	955.7	908.2	1143.2	3980.6	1035.9	995.6	979.0	900.9	3911.4		
100% FILAMENT ACETATE	81.5	91.5	87.5	108.5	369.0	a	a	90.5	108.7	a		
TAFETAS (PLAIN WEAVE)												
75% DENSER WARE	15.0	14.0	10.0	8.7	40.3	8.4	7.8	8.1	8.8	33.1		
75% DENSER WARE	9.5	7.9	9.0	12.7	40.8	9.5	11.2	15.0	14.5	48.8		
ALL OTHER	14.7	19.9	81.2	43.5	159.3	46.5	40.0	20.4	27.7	127.4		
SATINS	12.0	20.9	9.9	12.5	55.3	a	a	a	a	a		
ALL OTHER ^b	55.5	28.8	25.7	51.1	118.9	a	a	a	a	a		
FILAMENT COMB. CHIEFLY ACETATE	12.4	12.5	11.9	13.9	50.7	14.1	14.0	15.0	11.5	52.6		
100% FILAMENT RAYON	6.5	6.7	6.0	7.1	26.3	7.1	6.4	6.0	5.0	24.5		
TWILLS	4.4	5.1	4.9	6.1	20.5	6.4	5.7	4.5	3.2	19.8		
ALL OTHER ^c	1.9	1.6	1.1	1.0	5.6	0.7	0.7	1.5	1.8	4.7		
100% FILAMENT NYLON	166.0	156.7	152.4	146.9	662.0	141.8	140.0	147.6	125.7	555.1		
TAFETAS (PLAIN WEAVE)												
50 & 70 DENSER	51.0	50.4	53.0	59.0	213.4							
ALL OTHER	54.0	28.0	22.6	23.4	108.0	81.0	74.4	77.6	67.5	301.1		
TWILLS & SATINS												
MARQUINETTES, NINGONS & OTHER SHEERS	4.5	4.0	3.1	3.3	14.9							
INDUSTRIAL TYPE	68.8	59.1	48.4	55.5	231.8	55.9	52.6	56.2	35.2	219.9		
ALL OTHER	7.9	6.2	5.4	4.7	24.1	4.5	5.0	5.8	5.0	19.1		
100% FILAMENT POLYESTER	248.6	278.4	258.8	500.7	1086.5	284.3	301.2	293.6	252.9	1132.0		
TEXTURED YARN												
10-100 GZ/SQ YD.	45.0	51.0	52.9	52.5	200.0	50.9	60.0	64.7	58.5	240.1		
4 GZ & OVER SQ YD.	141.4	165.9	152.7	185.0	645.0	170.1	180.0	169.0	140.5	690.5		
NONTEXTURED YARN												
INDUSTRIAL TYPE	17.4	14.5	12.5	15.1	59.5	15.5	10.1	9.9	10.2	45.7		
MARQUETS, NINGONS & OTHER SHEERS	33.4	35.7	34.2	39.7	143.0	33.0	33.0	32.0	40.5	137.5		
TAFETAS	12.9	12.9	6.5	9.8	42.1	7.0	4.7	2.9	4.6	19.2		
ALL OTHER						4.2	4.5	4.0	4.8	15.9		
FILAMENT COMB. CHIEFLY POLYESTER	25.9	22.4	24.0	21.2	93.5	21.5	20.0	21.0	24.5	86.7		
GLASS FIBER	115.2	107.9	85.5	93.2	391.8	100.0	92.8	93.1	87.0	373.1		
INDUSTRIAL												
WEAVES, BUCKING & SCREENING	15.0	15.1	9.4	8.6	47.7	9.8	9.7	8.5	5.0	33.0		
ALL OTHER ^d	101.0	84.8	76.1	84.0	347.1	90.8	83.1	84.6	82.0	340.1		
OTHER 100% FILAMENT YARN ^e	510.8	280.6	502.3	401.7	1695.4	400.1	375.0	511.5	296.2	1582.8		

See footnotes on opposite page.

MAN-MADE FIBER BROAD WOVEN GOODS PRODUCTION (Continued)

MILLION SQUARE YARDS

TYPE OF FABRIC	1980					1981					1982	
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q
100% SPUN YARN FABRICS & BLENDS	1498.9	1453.4	1373.2	1574.1	5899.6	1613.6	1619.8	1611.3	1596.3	6441.0		
SPUN RAYON AND/OR ACETATE ^f	96.2	90.1	84.8	100.5	451.4	174.1	176.8	142.0	92.0	584.9		
SPUN ACETATE/MODAC/AC ^f	5.9	4.4	5.2	4.7	18.1	2.9	4.7	4.2	2.5	12.5		
100% SPUN POLYESTER ^f	58.5	51.8	53.3	54.8	218.2	78.5	77.1	73.1	73.9	302.4		
PRINT CLOTH YARN	15.8	16.5	18.0	12.0	65.5	11.5	14.8	13.4	15.1	54.6		
ALL OTHER	42.5	35.3	34.7	42.2	154.7	67.0	62.3	59.7	58.8	248.8		
SPUN POLYESTER BLENDS WITH COTTON ^f	1117.4	1100.5	1015.0	1110.0	4342.9	1115.4	1097.1	1121.5	1182.5	4516.5		
BALESTE	74.2	66.5	65.6	74.8	281.1	74.9	67.1	66.9	60.9	269.8		
BED SHEETING	415.9	426.0	474.7	402.9	1619.1	405.7	498.1	404.0	467.7	1575.5		
BROAD CLOTH	91.0	75.1	65.4	67.8	299.3	55.4	62.4	77.6	72.2	267.6		
CORDUROY						19.0	18.7	g	g	g		
VOILES	19.0	22.6	21.2	24.0	87.4	11.1	9.4	11.6	9.0	41.1		
CONFORTS												
SHIRTING	6.5	6.0	6.5	12.2	31.4	13.5	11.4	11.5	9.7	45.9		
OTHER (INCL. TOWNSHIPS)	12.5	12.0	14.2	15.4	54.1	14.2	13.1	12.4	11.3	51.0		
POPLINS	55.7	68.4	60.9	60.5	245.5	65.6	73.3	85.2	79.5	304.6		
PRINT CLOTH YARN												
PLAIN PRINT CLOTH ^h	185.0	169.1	177.0	180.7	691.5	212.1	202.9	223.1	211.0	849.1		
ALL OTHER	12.1	15.5			42.7							
NAILLONS	24.1	22.5	22.0	23.9	92.5	7.8	6.4	4.7	4.7	22.6		
TWILS (INCL. GARMENT)												
DRAPEY THAN 2 SQ YD LB	30.0	28.6	31.8	30.2	120.2	31.5	38.6	29.2	19.6	118.7		
2 SQ YD LB & TIGHTER	62.1	50.8	48.9	67.0	248.8	68.1	61.7	63.0	68.3	261.1		
YARN DYED ⁱ	77.6	72.9	68.1	66.5	285.0	65.2	62.4	55.4	53.0	235.9		
ALL OTHER ^j	50.7	57.3	59.9	74.9	242.8	74.7	71.7	70.9	216.6	476.6		
SPUN POLYESTER BLENDS WITH RAYON ^f	147.7	140.4	141.2	107.0	536.3	177.2	190.9	193.7	176.6	738.4		
PLAIN PRINT CLOTH	89.8	89.8	88.0	100.4	368.0	115.8	118.9	115.8	103.7	452.2		
OTHER PRINT CLOTH	18.8	17.4			57.1							
ALL OTHER	39.1	33.2	53.2	66.6	171.2	61.4	72.0	79.9	72.9	286.2		
SPUN POLYESTER BLENDS WITH OTHER FIBERS ^f	10.0	7.5	14.5	15.4	54.0	15.3	15.6	22.5	19.4	72.8		
SPUN POLYESTER BLENDS WITH WOOL ^k	11.3	11.1	13.4	14.5	50.4	12.6	13.4	30.5	34.2	149.2		
SPUN NYLONS	5.2	6.1	5.2	6.5	22.8	8.6	12.5					
SPUN POLYESTER BLANKETING	11.8	11.7	14.2	15.0	50.7	10.2	12.2	m	m	m		
SPUN ACETATE/MODAC/AC BLANKETING	18.1	19.8	17.4	15.7	71.0	14.4	15.9	14.5	11.7	56.5		
ALL OTHER 100% SPUN YARN FABRICS & BLENDS	12.3	10.1	9.0	12.4	43.8	4.0	4.0	4.5	3.5	17.2		
COMBINATIONS & MIXTURES OF FILAMENT & SPUN YARN FABRICS	215.6	170.9	160.4	216.9	753.8	246.3	251.3	265.2	239.4	1002.2		
FILAMENT RAYON OR ACETATE WARP	14.2	15.0	18.4	28.8	76.4	31.4	33.1	30.5	27.2	122.2		
FILAMENT POLYESTER WARP	71.2	62.6	64.5	87.7	286.0	82.5	76.2	68.7	59.8	287.0		
ALL OTHER FILAMENT WARP	8.3	4.7	2.2	5.1	10.4	3.5	2.0	2.5	2.9	10.5		
SPUN WARP WITH FILAMENT FILLING	101.1	98.6			315.2							
COMBINATION FILAMENT & SPUN WARP OR FILLING	20.7	20.0	75.3	97.3	69.8	129.3	140.0	163.7	149.5	582.5		
OTHER SPECIALTY FABRICS	92.8	85.3	75.1	77.3	328.5	99.0	96.6	85.8	79.8	361.2		
DRAPEY & BEDSPREAD ^l	54.1	51.7	48.9	45.7	198.4	65.0	60.5	50.4	51.5	227.2		
JACQUARD WOVEN	2.2	1.5	1.5	1.5	6.5	2.8	3.3	2.7	2.0	10.8		
OTHER WOVEN	51.9	50.2	47.4	42.4	191.9	62.2	57.0	47.7	49.5	216.4		
SLIK	2.0	1.5	1.5	1.5	6.1	1.5	1.5	1.8	1.8	6.4		
VELVETS, PILLSIES & OTHER PILE	4.1	4.5	3.9	3.0	16.2	3.8	3.9	3.4	2.9	14.0		
UPHOLSTERY & TAPESTRY	29.9	23.0	18.2	26.0	97.1							
ALL OTHER ^o	2.7	3.0	2.8	2.2	10.7	28.9	30.9	30.2	23.6	115.6		
TOTAL MAN MADE FIBER FABRICS ABOVE	2780.8	2663.3	2516.9	3011.5	10972.5	4048.0	4008.0	3950.8	3859.4	15866.2		

SOURCE: U.S. Census Bureau, *Current Industrial Report MQ 22T*.

a. Included in Other 100% Filament Yarn below.

b. Includes marquisettes, minons, sheers, industrials and twills.

c. Includes marquisettes, minons, sheers, industrials, taffetas and satins.

d. Includes household fabrics (marquisettes, drapery, upholstery, etc.).

e. Includes filament combinations, chiefly rayon, and saran (olefin).

Also includes 100% filament acetate (except taffetas) for 1st & 2nd Q 1981 and 1981 total.

f. Except blanketing.

g. Included in All Other Spun Polyester Blends With Cotton below.

h. Includes carded broadcloth.

i. Includes overdyed fabrics.

j. Includes seersucker and piece dyed pattern fabrics. Also includes corduroy for 3rd & 4th Q 1981 and 1981 total.

k. Does not include blanketing, except for polyester blanketing in 3rd & 4th Q 1981 and 1981 total.

l. Included in Spun Polyester Blends With Wool above for 3rd & 4th Q 1981 and 1981 total.

m. Except glass.

o. Includes tie, twisted paper yarn and girdle & swimwear fabrics.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEM & COUNTRY	1982						2 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE YARN, MONOFIL & STRIPS								
CANADA	0	15					15	115
MEXICO	155	76					231	240
BELGIUM	11	0					11	50
WEST GERMANY	502	275					777	532
NETHERLANDS	80	—					80	820
SPAIN	0	81					81	142
UNITED KINGDOM	0	0					0	13
JAPAN	20	42					62	14
ALL OTHER COUNTRIES ^a	47	22					69	24
TOTAL R+A YARN	861	588					1449	2335
RAYON+ACETATE STAPLE+TOW								
CANADA	155	107					262	113
AUSTRIA	105	40					145	844
FRANCE	1	52					53	101
WEST GERMANY	42	44					86	—
ITALY	0	0					0	12
SWEDEN	404	0					404	785
UNITED KINGDOM	117	2					119	952
AUSTRALIA	155	0					155	0
JAPAN	149	24					173	247
ALL OTHER COUNTRIES ^b	0	80					80	0
TOTAL R+A STAPLE	1686	409					2095	5005
NON-CELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	295	150					445	148
COSTA RICA	117	27					144	0
MEXICO	0	0					0	84
FRANCE	128	114					242	224
WEST GERMANY	381	562					943	1038
ITALY	24	2					26	204
NETHERLANDS	2	1					3	1
UNITED KINGDOM	67	48					115	171
JAPAN	453	661					1114	171
ALL OTHER COUNTRIES ^c	10	6					16	111
TOTAL N.C. YARN	1683	1578					3061	2502
NON-CELLULOSIC STAPLE+TOW								
CANADA	450	510					960	1078
MEXICO	177	27					204	218
BELGIUM	20	51					71	140
FRANCE	219	104					323	841
WEST GERMANY	740	752					1492	2504
IRELAND	0	40					40	50
ITALY	58	24					82	820
NETHERLANDS	141	80					221	40
ROMANIA	50	106					156	0
UNITED KINGDOM	105	250					355	710
JAPAN	588	461					1049	1105
TAIWAN	616	104					720	1066
ALL OTHER COUNTRIES ^d	10	5					15	18
TOTAL N.C. STAPLE	5258	2481					8739	8329

Other countries supplying 1982 poundages are

a. Austria 20; France 44 & Italy 5

b. Finland 80

c. Austria 7; Belgium 2; Ireland 1; South Korea 4

Romania 1; Sweden 5 & Switzerland 2

d. Austria 2; East Germany 15; Hong Kong 1 & Switzerland 3

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1 - 1 - 78	1982						2 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE									
YARN, SINGLES									
TEXTURED	5101100 & 0200	5	0					5	11
OTHER	5101180 & 0240 ^a	850	586					1442	2321
MONOFILAMENTS	5001810 & 0610	0	2					2	5
STRIPS, 11 LB & UNDER	5002000 *	0	0					0	0
SUBTOTAL ABOVE		861	588					1449	2335
STAPLE	5003520 & 3525	1510	409					1919	2655
GROUPED FILAMENTS	5003010 & 3110	170						170	572
SUBTOTAL ABOVE		1686	409					2095	3005
WASTE, ADVANCED & NOT ADVANCED	5003015 & 7510	0	0					0	49
NON-CELLULOSIC FIBERS									
YARN, SINGLES									
TEXTURED, NYLON	5101100 & 0200	425	174					597	414
POLYESTER	5101110 & 0210	241	45					274	54
OTHER	5101114 & 0214	42	20					58	73
OTHER, NYLON	5101140 & 0240	111	211					322	729
POLYESTER	5101150 & 0250	551	691					1242	522
OTHER	5101170 & 0270 ^b	164	81					245	355
MONOFILAMENTS	5001200 & 0300 ^c	140	150					270	545
STRIPS, OVER 11 LB	5002100 & 2500 *	51	15					44	52
SUBTOTAL ABOVE		1685	1578					3061	2502
STAPLE, NYLON		492	209					601	3211
POLYESTER	5004542	487	517					1004	245
ACRYLIC	5004545	520	479					1000	2065
OLEFIN	5004540	1	50					41	5
OTHER	5004555	899	292					1191	1450
GROUPED FILAMENTS									
NYLON	5005050 & 5150	460	540					990	118
POLYESTER	5005040 & 5140	0	0					0	42
ACRYLIC	5005050 & 5150	297	570					675	450
OTHER	5005055 & 5105	190	54					249	181
SUBTOTAL ABOVE		5258	2481					5759	8529
WASTE, NOT ADVANCED, NYLON	5005025	1882	1647					3529	5185
POLYESTER	5005050	1398	775					2173	2881
ACRYLIC	5005045	0	184					184	547
OTHER	5005000	455	229					662	255
NOIS & GARNETTED FIBERS	5005000 & 7000 *	0	20					20	0
OTHER WASTE, ADVANCED	5007525 *555	50	17					67	182
SUBTOTAL ABOVE		5765	2872					6655	7030
TOTAL MAN-MADE ABOVE		11251	7728					18979	25245
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN, PLIED									
TEXTURED, CELLULOSIC	5101100	0	0					0	
NON-CELLULOSIC	5101015 ^d & 1100 ^e	407	110					517	392
OTHER, CELLULOSIC	5101040 & 1155 ^f	0	0					0	10
NON-CELLULOSIC	5101050 & 1070 ^g	200	18					218	47
SPUN YARN, CELLULOSIC	5104005 & 4050 ^h	28	0					28	45
OTHER	5104015 & 4021 ⁱ	1570	1255					2823	3210
OTHER YARNS, NES INCL CHENILLE	5104029 8000	205	89					294	461
HANDWORK YARNS & SEWING, THREAD	5105000 0140	166	205					369	477
SILVER TOPS & ROVING	5005000	454	509					745	861
TEXTILE GLASS FIBER	5002600 & 2600 ^j	1737	1092					2829	1597
GRAND TOTAL ABOVE		15998	10808					26806	30547

SOURCE: U.S. Census Bureau.

NES: Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 510.0510 & 0610.

b. Also includes 510.0550, 0550, 0630 & 0650.

c. Also includes 509.0340, 0345, 0500, 0650, 0640 & 0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 510.1110 & 1114.

f. Also includes 510.2010 & 2110.

g. Also includes 510.1150, 1155, 1170, 2030, 2050, 2150 & 2150.

h. Also includes 510.5005 & 5030.

i. Also includes 510.4040, 4047, 4050, 5015, 5046, 5047, 5049 & 5051.

j. Chiefly roving. Also includes 509.9800 & 9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
MAN-MADE FIBER DATA^c								
YARN*MONOFILAMENTS^d								
TOTAL SHIPMENTS^b								
ACETATE	19.1	16.9	15.7				53.7	64.0
NYLON ^e								
INTL STRENGTH ^f	20.2	20.2	21.5				80.0	100.1
LOW DENIER INDUSTRIAL ^g	2.0	2.5	2.0				7.5	10.8
CARPET	30.5	25.5	30.0				129.0	138.2
TEXTILE	27.0	27.0	29.5				86.4	108.7
POLYESTER								
INDUSTRIAL ^f	22.6	23.4	27.8				74.8	75.0
LOW DENIER INDUSTRIAL ^g	1.9	1.8	1.0				3.5	6.7
TEXTILE	75.4	87.8	88.9				251.7	262.1
CELLOS ^h	51.0	52.0	55.7				157.8	160.2
TOTAL NON-CELLULOSIC ABOVE ⁱ	248.5	267.8	281.5				797.8	974.4
STAPLE*LOW*FIBERFILL^j								
RAYON	30.3	28.9	29.1				88.3	114.2
NYLON ^e								
INTL STRENGTH ^f	18.0	18.5	19.7				69.0	212.1
MID-TO-HIGH RYER	15.8	17.7	16.1				59.5	185.9
POLYESTER	17.5	17.6	17.0				52.8	122.2
CELLOS ^h	8.5	10.2	11.2				29.7	52.4
TOTAL NON-CELLULOSIC ABOVE	275.4	282.6	295.9				853.9	1051.9
END-OF-MONTH STOCK								
YARN*MONOFILAMENTS								
ACETATE	12.4	11.7	13.5				13.5	15.8
NYLON ^e								
INTL STRENGTH ^f	11.7	17.0	15.1				43.1	45.7
LOW DENIER INDUSTRIAL ^g	1.5	1.5	1.1				4.1	5.1
CARPET	12.5	58.0	55.8				58.5	58.5
TEXTILE	50.9	52.0	50.2				51.1	61.8
POLYESTER								
INDUSTRIAL ^f	25.7	25.1	25.2				25.2	21.5
LOW DENIER INDUSTRIAL ^g	1.0	5.0	5.8				5.8	8.5
TEXTILE	55.4	89.0	95.4				95.4	87.4
CELLOS ^h	10.5	10.0	10.5				10.5	10.0
TOTAL NON-CELLULOSIC ABOVE ⁱ	344.8	335.4	330.5				330.5	292.6
STAPLE*LOW*FIBERFILL								
RAYON	32.6	35.6	38.2				38.2	29.3
NYLON ^e								
INTL STRENGTH ^f	15.9	16.7	19.3				19.3	17.3
MID-TO-HIGH RYER	18.0	15.2	19.2				19.2	14.5
POLYESTER	180.4	191.9	189.2				189.2	190.5
CELLOS ^h	50.0	51.5	51.0				51.0	10.2
TOTAL NON-CELLULOSIC ABOVE	342.9	347.1	340.3				340.3	318.1
WOOL & COTTON CONSUMPTION								
WAPMEL CLASS WOOL		11.0	10.8				22.4	25.2
CARPET CLASS WOOL		0.7	0.9				1.0	1.5
TOTAL RAW WOOL		12.5	11.7				23.0	26.7
RAW COTTON		207.2	195.8	222.5			625.5	719.0

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spun-bonded polypropylene and film fiber produced for textile end uses.

i. Spandex and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*low data are available annually only; see page 21 of the February issue.

Textile Organon

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MONTHLY REVIEW

Highlights

First quarter U.S. man-made fiber production (except acetate staple+tow and rayon, saran & spandex yarn+monofilaments) totaled 2,005.5 million pounds.

Following are the first quarter 1982 and the fourth quarter 1981 production data (million pounds) and the percentage change, respectively: acetate yarn 52.9 & 54.8 & -3½%; rayon staple+tow 95.4 & 111.7 & -15%; non-cellulosic yarn+monofilaments 785.7 & 834.2 & -6%; non-cellulosic staple+tow 864.6 & 940.8 & -8%; and textile glass fiber 206.9 & 263.2 & -21%.

APRIL SHIPMENTS DECLINED 3½%

April shipments of non-cellulosic fibers (except saran and spandex) totaled 554.5 million pounds, a decline of 3½% from March deliveries of 574.9 million pounds. January-April 1982 deliveries totaled 2,200.6 million pounds, 21% less than the 2,786.8 million pounds shipped during the first four months of 1981.

Deliveries last month of non-cellulosic yarn+monofilaments (except saran and spandex) totaled 273.4 million pounds, 2% below March shipments of 278.8 million pounds and 24% below April 1981 deliveries of 359.9 million pounds. For the year to date, filament yarn shipments totaled 1,065.4 million pounds, 20% less than the 1,334.3 million pounds delivered during the January-April 1981 period.

Non-cellulosic staple+tow shipments during April totaled 281.1 million pounds, 5% less than March deliveries of 296.1 million pounds and 30% below April 1981 shipments of 400.6 million pounds. For the first four months of 1982, staple+tow shipments totaled 1,135.2 million pounds, 22% less than shipments of the corresponding 1981 period.

YEAR-TO-DATE SHIPMENTS COMPARED

Following is a comparison of 1982 year-to-date ship-

ments of non-cellulosic yarn+monofilaments (except saran and spandex) with the corresponding 1981 period (million pounds), and the percentage change, respectively: nylon industrial yarn 118.0 & 142.0 & -17%; low denier industrial 10.0 & 12.6 & -21%; carpet 175.7 & 269.6 & -35%; textile 112.8 & 146.0 & -23%; polyester industrial yarn 101.1 & 104.1 & -3%; low denier industrial 7.5 & 9.6 & -22%; textile 339.9 & 425.7 & -20%; olefin 200.4 & 224.7 & -11% and the total of these fibers 1,065.4 & 1,334.3 & -20%.

For non-cellulosic staple+tow, the corresponding data are: nylon 201.9 & 292.1 & -31%; acrylic+modacrylic 207.2 & 250.6 & -17%; polyester 685.4 & 865.8 & -21%; olefin+vinyon 40.7 & 44.0 & -7½% and the total 1,135.2 & 1,452.5 & -22%.

APRIL AND MARCH SHIPMENTS COMPARED

Following is a comparison of total April shipments of non-cellulosic yarn+monofilaments (except saran and spandex) with March (million pounds), and the percentage change, respectively: nylon industrial yarn 31.1 & 31.5 & -1½%; low denier industrial 2.5 & 2.6 & -4%; carpet 46.1 & 46.0 & marginal change; textile 28.4 & 29.5 & -3½%; polyester industrial yarn 26.3 & 27.8 & -5½%; low denier industrial 1.9 & 1.9 & unchanged; textile 88.2 & 88.5 & -½%; olefin 48.9 & 51.0 & -4% and the total of these fibers 273.4 & 278.8 & -2%.

Similarly, for non-cellulosic staple+tow, the corresponding data are: nylon 55.9 & 49.7 & +12%; acrylic+modacrylic 52.7 & 61.0 & -14%; polyester 161.7 & 174.0 & -7%; olefin+vinyon 10.8 & 11.4 & -5½% and the total 281.1 & 296.1 & -5%.

CELLULOSIC SHIPMENTS UP 9%

April shipments of acetate yarn+monofilaments and rayon staple+tow totaled 51.0 million pounds, an increase of 9% from the 46.8 million pounds delivered during March, but 26% less than the 68.5 million pounds shipped in April 1981. For the first four months of 1982,

shipments totaled 193.0 million pounds, 22% less than the 246.7 million pounds shipped during the corresponding 1981 period.

Acetate yarn+monofilament deliveries during April totaled 19.4 million pounds, 9½% above March shipments of 17.7 million pounds, but 28% below April 1981 levels. For the January-April 1982 period, shipments were 73.1 million pounds, 20% less than those of the corresponding 1981 period.

April deliveries of rayon staple+tow totaled 31.6 million pounds, an increase of 8½% from March shipments of 29.1 million pounds, but 24% less than deliveries of the corresponding 1981 month. January-April 1982 shipments of 119.9 million pounds were 23% below the 155.6 million pounds delivered during the corresponding 1981 period.

APRIL CONSUMPTION OF COTTON FELL 7%

U.S. mill consumption of cotton during April totaled 213.5 million pounds, 7% less than the 229.8 million pounds consumed in March. For 1982 to date, U.S. mills consumed 846.3 million pounds of cotton, 11% less than the 948.0 million pounds consumed during the corresponding 1981 period.

Consumption of cotton in the first quarter of 1982 totaled 632.8 million pounds, 1½% above the 624.1 million pounds consumed during the fourth quarter of 1981, but 11% less than the 709.9 million pounds mills used during the first quarter of 1981.

1974-1975 AND 1981-1982 COMPARED

Because of the similarities between the current situation in the man-made fiber industry and that of the 1974-75 period, the following analysis is presented to both highlight these similarities and point out differences.

Prior to the 1974-75 recession, non-cellulosic fiber shipments peaked in May 1974, at 566.5 million pounds; bottomed out in December 1974, at 267.6 million pounds; and hit a postrecession high of 601.2 million pounds in September 1975. The peak-to-trough decline was 53%, followed by a 125% climb to the postrecession high.

Between May and August 1974, shipments declined 3½% to 546.0 million pounds, or at a compound monthly rate of 1.2%. However, the monthly rate of decline accelerated from that point, averaging 16.3% to the trough in December 1974. Overall, from May to December 1974, non-cellulosic shipments fell at a monthly compounded rate of 10.2%.

Following the December trough, non-cellulosic fiber shipments climbed steadily to the high of 601.2 million pounds reached in September 1975. The average monthly rate of growth during this period was 9.4%.

Over the peak-to-trough-to-peak cycle of the 1974-75 period, non-cellulosic fiber shipments fell for seven

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months at a monthly rate of 10.2%, followed by a 9-month climb at 9.4% per month.

Data for the 1981-82 cycle are incomplete as only the peak-to-trough half of the cycle has been completed. The pre-recession peak occurred in April 1981, at 760.5 million pounds, one month earlier than in 1974. The trough occurred in January 1982, at 522.4 million pounds. Thus, from peak to trough, non-cellulosic fiber shipments fell 31%. This compares with the 53% decline recorded during the 1974-75 cycle.

On a monthly basis, non-cellulosic shipments fell at a compounded rate of 2.9% between April and August 1981. From this point, shipments declined at an average monthly rate of 5.1% through January 1982. Thus, the average monthly rate of decline between April 1981 and January 1982 was 4.1%.

From January to April of this year, non-cellulosic shipments have risen 6%, to 554.5 million pounds. On a monthly basis this represents a compounded growth rate of 2.0%. For the similar 1975 period, non-cellulosic shipments rose by 46%, or at a monthly rate of 13.4%.

The similarities between 1974-75 and 1981-82 are mostly on the downside, with the decline in 1981-82 being slower, a 4.1% monthly rate versus 10.2% in 1974; and two months longer, 9 months versus 7 months. However, by the third month after the bottom, shipments had risen at a monthly rate of 14.6% during the 1974-75 cycle, whereas during the current cycle they have risen at a monthly rate of only 2.0%.

FIRST QUARTER PRODUCTION DECLINED 9%

Production of man-made fibers (except acetate staple+tow and rayon, saran & spandex yarn+monofilament) totaled 2,005.5 million pounds during the first quarter of 1982, a decline of 199.2 million pounds or 9% below the 2,204.7 million pounds produced during the October-December quarter of 1981. The January-March 1982 quarter output was 470.0 million pounds, or 19%, below the 2,475.5 million pounds produced during the first quarter of 1981.

Non-cellulosic yarn+monofilament production (except saran and spandex) totaled 785.7 million pounds during the first quarter of 1982, 6% below fourth quarter 1981 output of 834.2 million pounds and 20% below the 977.7 million pounds produced during the corresponding 1981 quarter. January-March 1982 output of non-cellulosic staple+tow totaled 864.6 million pounds, 8% below fourth quarter 1981 and 20% below the 1,083.0 million pounds produced during the first quarter of 1981. Only first quarter 1982 production of olefin yarn+monofilaments and acrylic+modacrylic staple+tow exceeded fourth quarter 1981 levels. First quarter production of non-cellulosic yarn+monofilaments (except saran and spandex) and non-cellulosic staple+tow were at their

lowest levels since the third and fourth quarters of 1976 respectively.

First quarter 1982 production of acetate yarn totaled 52.9 million pounds, 3½% below the 54.8 million pounds produced the previous quarter and 14% below the January-March 1981 output of 61.4 million pounds. Rayon staple+tow production during the first quarter of 1982 declined 15%, to 95.4 million pounds, from fourth quarter 1981 levels and was 18% below the 116.3 million pounds produced during the corresponding 1981 quarter.

Output of textile glass fiber during the latest quarter totaled 206.9 million pounds, a decrease of 21% from fourth quarter 1981 production of 263.2 million pounds and 13% below the output of the corresponding 1981 quarter.

FIRST QUARTER SHIPMENTS OFF 10%

Shipments of man-made fibers (except acetate staple+tow and rayon, saran & spandex yarn+monofilaments) totaled 1,989.4 million pounds during the first quarter of this year, a decrease of 8½% from the previous quarter's deliveries and 18% below deliveries of the corresponding 1981 quarter.

January-March 1982 deliveries of non-cellulosic yarn+monofilaments (except saran and spandex) were 792.0 million pounds, 5% less than the 831.6 million pounds shipped during the fourth quarter of 1981 and 19% less than deliveries during the first quarter of 1981. Non-cellulosic staple+tow shipments during the latest quarter totaled 854.1 million pounds, 10% less than deliveries of the fourth quarter of 1981 and 19% less than the 1,051.9 million pounds shipped during the first quarter of 1981. First quarter 1982 exports of polyester staple+tow totaled 86.4 million pounds, a decline of 44% from fourth quarter 1981 levels.

First quarter 1982 shipments of acetate yarn totaled 53.7 million pounds, 1% above fourth quarter 1981 deliveries of 53.1 million pounds, but 16% below the 64.0 million pounds shipped during the first quarter of 1981. Rayon staple+tow shipments during the latest quarter stood at 88.3 million pounds, 18% less than fourth quarter 1981 levels and 23% below the 114.2 million pounds shipped during the corresponding 1981 quarter.

Textile glass fiber deliveries during the January-March quarter of 1982 totaled 201.3 million pounds, 15% less than fourth quarter 1981 shipments and 13% below first quarter 1981 deliveries of 232.2 million pounds.

FIRST QUARTER EXPORTS FELL 12%

The chart on page 100 and table on page 101 detail U.S. man-made fiber exports as reported by the U.S. Census Bureau. These differ from the exports shown on pages 92 and 93 in that they contain exports from all sources (not just from fiber producers) and in timing.

QUARTERLY MAN-MADE FIBER DATA

MILLION POUNDS

ITEM	1980					1981					1982				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
YARN+MONOFILAMENTS^a															
ACETATE															
PRODUCTION	80.0	82.1	77.5	68.9	308.5	61.4	73.0	65.8	54.8	257.0	52.9				
SHIPMENTS DOMESTIC	72.9	71.9	64.7	59.7	269.2	53.4	69.9	57.6	45.4	226.3	44.9				
EXPORT	7.8	8.7	7.7	8.5	32.7	10.6	8.8	7.7	7.7	34.8	8.8				
TOTAL	80.7	80.6	72.4	68.2	301.9	64.0	78.7	65.3	53.1	261.1	53.7				
ENDING STOCK	11.1	12.6	17.7	18.4		15.8	12.1	12.6	14.3		13.5				
NYLON+ARAMID															
PRODUCTION	453.1	398.3	331.9	447.8	1631.1	435.1	428.0	403.9	313.7	1580.7	299.9				
SHIPMENTS DOMESTIC	416.0	350.9	347.7	424.3	1538.9	380.5	386.1	340.4	297.3	1404.3	283.9				
EXPORT	35.2	34.0	38.8	40.0	148.0	40.3	35.5	29.9	23.0	128.7	24.5				
TOTAL	451.2	384.9	386.5	464.3	1686.9	420.8	421.6	370.3	320.3	1533.0	308.4				
ENDING STOCK	162.3	175.7	121.1	104.6		118.9	125.3	158.9	152.3		143.8				
OLEFIN^b															
PRODUCTION	168.1	152.8	146.8	164.5	632.2	163.9	165.0	163.5	150.5	642.9	154.3				
SHIPMENTS DOMESTIC	156.9	143.9	147.3	163.6	611.7	164.3	158.6	155.0	150.4	628.3	146.8				
EXPORT	6.2	5.3	4.4	4.8	20.7	4.9	5.7	4.6	4.6	19.8	4.7				
TOTAL	163.1	149.2	151.7	168.4	632.4	169.2	164.3	159.6	155.0	648.1	151.5				
ENDING STOCK	72.1	75.7	70.8	66.9		61.6	62.3	66.2	61.7		64.5				
POLYESTER															
PRODUCTION	396.2	338.7	337.9	389.2	1462.0	378.7	416.6	403.9	370.0	1569.2	331.5				
SHIPMENTS DOMESTIC	369.2	310.7	320.4	363.1	1363.4	354.1	392.5	364.8	318.6	1430.0	297.2				
EXPORT	34.4	41.0	28.6	29.1	133.1	30.3	31.9	34.1	37.7	134.0	34.9				
TOTAL	403.6	351.7	349.0	392.2	1496.5	384.4	424.4	398.9	356.3	1564.0	332.1				
ENDING STOCK	144.9	131.9	120.8	117.8		112.1	104.3	109.3	123.0		122.4				
TOTAL NON-CELLULOSIC ABOVE															
PRODUCTION	1017.4	889.8	816.6	1001.5	3725.3	977.7	1009.6	971.3	834.2	3792.8	785.7				
SHIPMENTS DOMESTIC	942.1	805.5	815.4	951.0	3514.0	898.9	937.2	860.2	766.3	3462.6	727.9				
EXPORT	75.8	80.3	71.8	73.9	301.8	75.5	73.1	68.6	65.3	282.5	64.1				
TOTAL	1017.9	885.8	887.2	1024.9	3815.8	974.4	1010.3	928.8	831.6	3745.1	792.0				
ENDING STOCK	379.3	383.3	312.7	289.3		292.6	291.9	334.4	337.0		330.7				
DOMESTIC SHIPMENTS	942.1	805.5	815.4	951.0	3514.0	898.9	937.2	860.2	766.3	3462.6	727.9				
IMPORTS TEXTURED YARN ^c	0.6	0.9	1.9	1.7	5.1	1.4	2.7	2.1	2.2	8.4	2.0				
OTHER YARN ^c	3.1	3.7	3.0	2.3	12.1	2.2	3.1	3.3	2.8	11.4	2.8				
MONOFILAMENTS	1.4	1.3	0.8	0.5	4.0	0.5	0.8	0.9	0.4	2.6	0.4				
TOTAL IMPORTS	5.1	5.9	5.7	4.5	21.2	4.1	6.6	6.3	5.4	22.4	5.2				
TOTAL AVAILABLE	947.2	811.4	821.1	955.5	3535.2	903.0	943.8	866.5	771.7	3485.0	733.1				
TEXTILE GLASS FIBER															
PRODUCTION	242.3	224.0	183.3	217.7	867.3	237.1	260.2	280.6	263.2	1041.1	206.9				
SHIPMENTS DOMESTIC	249.7	181.2	182.4	253.8	867.1	222.4	273.8	239.0	228.6	963.8	189.8				
EXPORT	15.2	13.8	10.1	9.5	48.6	9.8	7.5	8.5	9.4	35.2	11.5				
TOTAL	264.9	195.0	192.5	263.3	915.7	232.2	281.3	247.5	238.0	999.0	201.3				
ENDING STOCK	129.9	158.9	149.7	104.1		109.0	87.9	121.0	146.2		151.8				
IMPORTS	2.0	2.0	1.7	1.6	7.3	2.6	2.7	7.4	5.5	18.2	3.8				
TOTAL AVAILABLE	251.7	183.2	184.1	255.4	874.4	225.0	276.5	246.4	234.1	982.0	193.6				

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

"Imports" are imports for consumption, as reported by the U.S. Census Bureau.

a. Data for rayon and "Other" non-cellulosic yarns (chiefly saran & spandex) are available annually only; see pages 20 & 21 of the February issue for further details on these yarns.

b. Olefin Yarn+Monofilament data also include film fiber as well as

spunbonded polypropylene.

c. Yarn imports include singles and plied.

d. Acetate staple+row data are available annually only; see pages 20 & 21 of the February issue for further details.

e. These figures are composites of the nylon, acrylic+modacrylic, polyester and olefin staple imports, i.e., Commodity Numbers 309.4338, 4342, 4345 & 4346.

The exports on pages 92 and 93 are direct export shipments by the fiber producer and were shipped by the fiber producer during that quarter. These shipments, plus any from other sources such as yarn texturizers,

throwsters, etc., are counted by the Census in the quarter they are shipped from a U.S. port, which may or may not coincide with the shipping quarter of the producer.

(Continued on page 95)

QUARTERLY MAN-MADE FIBER DATA (Continued)

MILLION POUNDS

ITEM	1980					1981					1982				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON	STAPLE+TOW^d														
PRODUCTION	126.9	113.4	101.0	102.0	443.3	116.3	114.1	118.5	111.7	460.6	95.4				
SHIPMENTS DOMESTIC	114.2	92.6	87.3	96.6	390.7	100.2	104.5	100.7	91.5	396.9	75.7				
EXPORT	14.0	17.8	16.2	13.0	61.0	14.0	15.2	14.2	16.4	59.8	12.6				
TOTAL	128.2	110.4	103.5	109.6	451.7	114.2	119.7	114.9	107.9	456.7	88.3				
ENDING STOCK	34.3	37.3	34.8	27.2		29.3	23.7	27.3	31.1		38.2				
DOMESTIC SHIPMENTS	114.2	92.6	87.3	96.6	390.7	100.2	104.5	100.7	91.5	396.9	75.7				
IMPORTS FOR CONSUMPTION															
STAPLE	1.4	1.3	2.4	2.9	8.0	3.6	3.5	3.9	3.8	14.6	3.5				
GROUPE FILAMENTS	0.7	0.7	0.3	0.6	2.3	0.4	0.7	0.6	0.5	2.2	0.3				
TOTAL IMPORTS	2.1	2.0	2.7	3.5	10.3	4.0	4.0	4.5	4.3	16.8	3.8				
TOTAL AVAILABLE	116.3	94.6	90.0	100.1	401.0	104.2	108.5	105.2	95.8	413.7	79.5				
NYLON+ARAMID															
PRODUCTION	214.0	128.3	161.2	223.1	726.6	214.9	255.2	183.8	117.9	751.8	140.5				
SHIPMENTS DOMESTIC	171.9	133.2	187.6	218.5	711.2	204.8	215.9	155.4	120.3	696.4	141.9				
EXPORT	8.8	6.1	7.7	9.3	31.9	7.3	8.1	4.5	5.2	25.1	4.1				
TOTAL	180.7	139.3	195.3	227.8	743.1	212.1	224.0	159.9	125.5	721.5	146.0				
ENDING STOCK	84.3	73.3	39.2	34.5		37.3	48.5	72.4	64.8		59.3				
IMPORTS	0.3	0.5	0.3	0.6	1.7	4.9	6.6	9.3	2.8	23.6	1.0				
TOTAL AVAILABLE	172.2	133.7	187.9	219.1	712.9	207.7	222.5	164.7	123.1	720.0	142.9				
ACRYLIC+MODACRYLIC															
PRODUCTION	206.4	197.7	182.1	193.0	779.2	190.8	176.8	166.8	156.4	690.8	149.6				
SHIPMENTS DOMESTIC	161.6	155.7	124.9	143.1	585.3	130.2	137.0	123.5	103.4	494.1	108.1				
EXPORT	50.6	43.9	47.1	44.2	185.8	55.1	50.3	42.5	52.5	200.4	46.4				
TOTAL	212.2	199.6	172.0	187.3	771.1	185.3	187.3	166.0	155.9	694.5	154.5				
ENDING STOCK	54.9	53.0	63.1	68.8		74.3	63.8	64.6	65.1		60.2				
IMPORTS	3.4	4.3	2.6	3.0	13.3	3.6	2.7	2.0	2.2	10.5	2.0				
TOTAL AVAILABLE	165.0	160.0	127.5	146.1	598.6	133.8	139.7	125.5	105.6	504.6	110.1				
OLEFIN+VINYLON															
PRODUCTION	30.7	30.3	26.5	28.2	115.7	31.3	35.1	37.1	38.5	142.0	35.8				
SHIPMENTS DOMESTIC	28.9	26.3	27.0	32.8	115.0	31.9	35.5	32.2	32.4	132.0	29.3				
EXPORT	1.4	0.5	1.0	0.8	3.7	0.4	0.3	0.4	0.4	1.5	0.6				
TOTAL	30.3	26.8	28.0	33.6	118.7	32.3	35.8	32.6	32.8	133.5	29.9				
ENDING STOCK	20.6	24.1	22.6	17.2		16.2	15.5	20.0	25.7		31.6				
POLYESTER															
PRODUCTION	654.3	583.2	589.6	699.6	2526.7	646.0	668.9	663.6	628.0	2606.5	538.7				
SHIPMENTS DOMESTIC	563.1	483.8	466.8	557.3	2071.0	493.2	525.9	507.5	478.8	2005.4	457.3				
EXPORT	84.8	111.1	136.2	136.3	468.4	129.0	148.2	161.6	154.6	593.4	86.4				
TOTAL	647.9	594.9	603.0	693.6	2539.4	622.2	674.1	669.1	633.4	2598.8	523.7				
ENDING STOCK	185.6	173.9	160.5	166.5		190.3	185.1	179.6	174.2		189.2				
IMPORTS	0.4	0.3	0.3	0.3	1.3	0.5	1.9	1.8	2.4	6.6	1.9				
TOTAL AVAILABLE	563.5	484.1	467.1	557.6	2072.3	493.7	527.8	509.3	481.2	2012.0	439.2				
TOTAL NON-CELLULOSIC															
PRODUCTION	1105.4	939.5	959.4	1143.9	4148.2	1083.0	1116.0	1051.3	940.8	4191.1	864.6				
SHIPMENTS DOMESTIC	925.5	799.0	806.3	951.7	3482.5	860.1	914.3	818.6	734.9	3327.9	716.6				
EXPORT	145.6	161.6	192.0	190.6	689.8	191.8	206.9	209.0	212.7	820.4	137.5				
TOTAL	1071.1	960.6	998.3	1142.3	4172.3	1051.9	1121.2	1027.6	947.6	4148.3	854.1				
ENDING STOCK	345.4	324.3	285.4	287.0		318.1	312.9	336.6	329.3		340.3				
DOMESTIC SHIPMENTS	925.5	799.0	806.3	951.7	3482.5	860.1	914.3	818.6	734.9	3327.9	716.6				
IMPORTS FOR CONSUMPTION															
5 FIBERS ABOVE ^e	4.1	5.2	3.3	3.9	16.5	9.0	11.2	13.1	7.4	40.7	4.9				
OTHER N.C. STAPLE	3.9	3.4	3.1	4.2	14.6	2.4	3.3	4.0	1.0	10.7	1.8				
GROUPE FILAMENTS	1.6	1.3	0.6	1.0	4.5	1.3	2.0	2.1	2.6	8.0	2.9				
TOTAL IMPORTS	9.6	9.9	7.0	9.1	35.6	12.7	16.5	19.2	11.0	59.4	9.6				
TOTAL AVAILABLE	935.1	808.9	813.3	960.8	3518.1	872.8	930.8	837.8	745.9	3387.3	726.2				

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	4TH Q 1980			1ST Q 1981			2ND Q 1981			3RD Q 1981			4TH Q 1981			1ST Q 1982		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
RAYON*ACETATE																		
YARN*MONOFILAMENTS	2.0	7.1	5.1 E	3.4	8.4	5.0 E	2.6	6.0	3.4 E	2.6	4.5	1.9 E	2.1	5.8	3.7 E	1.9	7.4	5.5 E
STAPLE*TOW ^b	3.5	12.9	9.4 E	4.0	15.9	11.9 E	4.0	16.3	12.3 E	4.5	15.0	10.5 E	4.3	15.0	10.7 E	3.9	14.7	10.8 E
WASTE	0.1	0.8	0.7 E	0.1	0.7	0.6 E	0.1	0.8	0.7 E	0.1	0.4	0.3 E	0.2	0.9	0.7 E	0.1	1.0	0.9 E
SUBTOTAL ABOVE	5.6	20.8	15.2 E	7.5	25.0	17.5 E	6.7	23.1	16.4 E	7.2	19.9	12.7 E	6.6	21.7	15.1 E	5.9	23.1	17.2 E
NON-CELLULOSIC FIBERS																		
YARN*MONOFILAMENTS	3.8	92.1	88.3 E	3.4	115.7	112.3 E	5.7	118.0	112.3 E	5.2	119.7	114.5 E	4.6	109.9	105.3 E	4.2	109.4	105.2 E
STAPLE*TOW	9.1	195.8	186.7 E	12.8	187.0	174.2 E	16.4	207.5	191.1 E	19.1	205.1	186.0 E	12.2	191.1	178.9 E	9.6	148.6	139.0 E
WASTE	6.2	22.4	16.2 E	11.9	25.7	13.8 E	11.0	27.9	16.9 E	12.5	25.0	12.5 E	14.4	28.7	14.3 E	10.3	28.5	18.2 E
SUBTOTAL ABOVE	19.1	310.3	291.2 E	28.1	328.4	300.3 E	33.1	353.4	320.3 E	36.8	349.8	313.0 E	31.2	329.7	298.5 E	24.1	286.5	262.4 E
TOTAL FIBER ABOVE^c	24.7	331.1	306.4 E	35.6	353.4	317.8 E	39.8	376.5	336.7 E	44.0	369.7	325.7 E	37.8	351.4	313.6 E	30.0	309.6	279.6 E
MAN-MADE FIBER MANUFACTURES^d																		
SLIVER, TOPS & ROVING	0.2	3.4	3.2 E	1.2	2.3	1.1 E	0.7	2.8	2.1 E	1.1	3.2	2.1 E	0.7	2.7	2.0 E	1.0	2.5	1.5 E
SPUN YARNS	4.9	9.8	4.9 E	6.8	14.6	7.8 E	8.2	13.4	5.2 E	6.7	9.3	2.6 E	6.6	8.4	1.8 E	6.1	7.6	1.5 E
THREAD & CRAFT YARNS	0.6	1.6	1.0 E	0.7	1.5	0.8 E	0.8	1.3	0.5 E	0.6	1.2	0.6 E	0.8	1.5	0.7 E	0.6	1.4	0.8 E
TIRE CORD & FABRIC	+	31.5	31.4 E	+	14.0	14.0 E	+	12.4	12.4 E	0.1	11.8	11.7 E	0.2	9.9	9.7 E	0.1	8.6	8.5 E
WOVEN FABRIC	15.8	70.0	54.2 E	21.4	57.4	36.0 E	25.7	61.5	35.8 E	26.0	45.4	19.4 E	22.3	44.2	21.9 E	21.2	31.3	10.1 E
KNIT FABRIC	1.5	6.3	4.8 E	0.6	5.7	5.1 E	0.4	7.3	6.9 E	0.5	4.9	4.4 E	0.6	3.8	3.2 E	0.6	3.6	3.0 E
NARROW FABRIC	1.6	6.1	4.5 E	1.9	6.2	4.3 E	2.4	6.9	4.5 E	2.3	6.4	4.1 E	2.1	6.7	4.6 E	2.4	6.4	4.0 E
APPAREL: KNIT	39.7	32.0	54.5 I	32.8	33.0	50.3 I	47.2	35.1	74.0 I	60.7	27.8	111.3 I	44.0	24.8	80.6 I	34.2	21.5	81.2 I
NOT KNIT	46.8			50.5			61.9			78.4			61.4			68.5		
HOME FURNISHINGS	13.5	29.0	31.0 E	13.2	22.8	26.1 E	14.1	22.1	26.9 E	16.3	20.4	19.7 E	17.2	18.9	16.8 E	14.3	17.3	15.8 E
OTHER		15.5			16.5			18.9			15.6			15.1			12.8	
TOTAL MANUFACTURES	124.7	205.2	80.5 E	129.1	174.0	44.9 E	161.4	181.7	20.3 E	192.7	146.0	46.7 I	155.9	136.0	19.9 I	149.0	113.0	36.0 I
TOTAL MAN-MADE FIBER & MANUFACTURES	149.4	536.3	386.9 E	164.7	527.4	362.7 E	201.2	558.2	357.0 E	236.7	515.7	279.0 E	193.7	487.4	293.7 E	179.0	422.6	243.6 E
COTTON MANUFACTURES^e	173.6	116.9	56.7 I	237.3	103.1	134.2 I	231.2	105.6	125.6 I	258.0	79.8	178.2 I	235.4	78.8	156.6 I	211.5	65.4	146.1 I
WOOL MANUFACTURES^f	21.6	5.7	15.9 I	23.5	3.5	20.0 I	29.2	3.4	25.8 I	36.5	2.7	33.8 I	24.4	2.7	21.7 I	21.8	3.1	18.7 I

SOURCES: The man-made fiber import and export data are from the U.S. Bureau of the Census. The man-made, cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man-made fiber and manufactures import, export and balance data of this table cover the cellulosic and non-cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as "Total Man-Made Fiber Above" on pages 101 and 103 of this issue.

d. Man made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 45 of the March 1982 *Organon*.

f. Raw wool content. The data differ from those on page 45 of the March *Organon* to the extent that noils and waste are included here.

**ESTIMATES OF THE APPAREL MARKET IN THE U.S.
AVAILABLE-FOR-DOMESTIC-CONSUMPTION BASIS
MILLION POUNDS (RAW FIBER BASIS)**

ITEM	1978			1979			1980			1981		
	TOTAL	IMPORTS	% IMPORTS OF TOTAL	TOTAL	IMPORTS	% IMPORTS OF TOTAL	TOTAL	IMPORTS	% IMPORTS OF TOTAL	TOTAL	IMPORTS	% IMPORTS OF TOTAL
COTTON												
IMPORTS OF YARN FOR APPAREL ^a	31	31		12	12		19	19		24	24	
IMPORTS OF FABRIC FOR APPAREL ^{a, b}	195	195		154	154		168	168		280	280	
FABRIC FROM U.S. MILLS	1,457			1,524			1,539			1,309		
ORGANON END USE SURVEY COTTON APPAREL ^c	1,685	226		1,690	166		1,726	187		1,613	304	
IMPORTS OF GARMENTS ^a	430	430		426	426		464	464		504	504	
EXPORTS OF GARMENTS ^a	62			91			181			123		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	2,051	656	32.0	2,025	592	29.2	2,009	651	32.4	1,994	808	40.5
MAN-MADE FIBERS												
DOMESTIC SHIPMENTS FOR APPAREL ^d	3,103			3,111			3,142			3,050		
IMPORTS OF FIBER/YARN FOR APPAREL ^e	178	178		100	100		84	84		140	140	
IMPORTS OF FABRIC FOR APPAREL ^{a, f}	99	99		73	73		73	73		90	90	
EXPORTS OF SEMI-MANUFACTURED PRODUCTS ^a	225			313			352			319		
ORGANON END USE SURVEY MMF APPAREL ^c	3,155	277		2,971	173		2,947	157		2,961	230	
IMPORTS OF GARMENTS ^a	426	426		360	360		379	379		437	437	
EXPORTS OF GARMENTS ^a	49			61			127			121		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	3,532	703	19.9	3,270	533	16.3	3,199	536	16.8	3,277	667	20.4
WOOL												
IMPORTS OF YARN FOR APPAREL ^a	6	6		4	4		4	4		5	5	
IMPORTS OF FABRIC FOR APPAREL ^a	26	26		22	22		21	21		28	28	
FABRIC FROM U.S. MILLS	107			106			100			115		
ORGANON END USE SURVEY WOOL APPAREL ^c	139	32		132	26		125	25		148	33	
IMPORTS OF GARMENTS ^a	45	45		39	39		42	42		41	41	
EXPORTS OF GARMENTS ^a	6			6			15			4		
TOTAL AVAILABLE FOR DOMESTIC CONSUMPTION	178	77	43.3	165	65	39.4	152	67	44.1	185	74	40.0
TOTAL (3 FIBERS) AVAILABLE FOR CONSUMPTION	5,761	1,436	24.9	5,460	1,190	21.8	5,360	1,254	23.4	5,456	1,549	28.4

a. See page 45 of the March 1982 *Organon*.

b. Total cotton fabric imports less estimated poundages for nonapparel uses.

c. See page 192 of the November 1981 *Organon* as revised.

d. Domestic shipments of man made fibers used in calculating the apparel end uses shown on page 192 of the November 1981 *Organon*.

e. Grand Total man made fiber imports from page 37 of the February 1982 *Organon* less estimated poundages for nonapparel uses.

f. Total man made fiber fabric imports from page 45 of the March 1982 *Organon* less estimated poundages for nonapparel uses.

(Continued from page 92)

The U.S. Census Bureau reports that 320,882 thousand pounds of man-made fibers were exported during the first quarter of 1982, 12% less than the 362,986 thousand pounds exported during the fourth quarter of 1981. The biggest decline occurred in exports of polyester staple, which fell 31% during the first quarter of 1982, to 90,356 thousand pounds, from the fourth quarter 1981 level of 130,988 thousand pounds.

Exports of rayon+acetate filament yarn increased 27% during the first quarter of 1982, to 7,394 thousand pounds, from the 5,835 thousand pounds exported during the previous quarter. Rayon+acetate staple+tow exports declined 2% during the latest quarter, to 14,691 thousand pounds, from the 14,989 thousand pounds exported during the fourth quarter of 1981.

Non-cellulosic filament yarn during the first quarter of 1982 totaled 109,366 thousand pounds, ½% less than the 109,922 thousand pounds exported during the fourth quarter of 1981. Exports of non-cellulosic staple+tow during the latest quarter declined 22%, to 148,640 thou-

sand pounds, from the 191,090 thousand pounds exported during the fourth quarter of 1981. As mentioned earlier, exports of polyester staple fell 31%. Also, exports of nylon staple declined 23% (to 4,018 thousand pounds) and exports of acrylic+modacrylic staple fell 8% (to 32,810 thousand pounds) during the first quarter of 1982.

Exports of textile glass fiber, at 11,318 thousand pounds, for the first quarter of 1982 were 2½% less than fourth quarter 1981 exports of 11,590 thousand pounds.

IMPORTS, EXPORTS & BALANCE

The export balance of man-made fibers and manufactures during the first quarter of 1982 totaled 243.6 million pounds, a decline of 50.1 million pounds, or 17%, from the fourth quarter 1981 export balance of 293.7 million pounds.

The export balance in man-made fibers during the January-March 1982 quarter totaled 279.6 million pounds, down 11% from the previous quarter, while man-made manufactures recorded an import balance of

U.S. MAN-MADE FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS & Average Denier

PERIOD	RAYON & ACETATE								NON-CELLULOSIC FIBERS ^a			TEX-TILE GLASS TOTAL ^c	GRAND TOTAL MAN-MADE FIBERS		
	FILAMENT YARN+MONOFIL				STAPLE+TOW				YARN +MONO	STAPLE +TOW	TOTAL		YARN ^d +MONO	STAPLE +TOW	TOTAL
	RAYON	ACETATE ^b		TOTAL	RAYON	ACE-TATE ^b	TOTAL	TOTAL							
		LBS	Den												
ACTUAL ANNUAL PRODUCTION															
1970	268	463		731	607	35	642	1373	1793	1793	3586	467	2991	2435	5426
1971	304	449		753	612	26	638	1391	2188	2105	4293	468	3409	2745	6152
1972	252	401		653	713	28	741	1394	2773	2583	5356	572	3998	3324	7322
1973	198	437		635	697	25	722	1357	3339	2970	6309	688	4662	3692	8354
1974	172	362		534	645	20	665	1199	3443	2780	6223	683	4660	3445	8105
1975	65	301		366	371	12	383	749	3209	2677	5886	546	4121	3060	7181
1976	68	287		355	475	11	486	841	3306	3320	6626	676	4337	3806	8143
1977	71	282		353	527	8	535	888	3674	3654	7328	787	4814	4189	9003
1978	62	301		363	535	7	542	905	3830	3953	7783	923	5116	4495	9611
1979	57	317		374	549	7	556	930	4155	4282	8437	1014	5543	4838	10381
1980	47	309		356	443	7	450	806	3744	4148	7892	868	4968	4598	9566
1981	48	257		305	461	4	465	770	3815	4191	8006	1041	5161	4656	9817
ACTUAL & PROJECTED CAPACITY, ANNUAL RATE, AS OF -															
NOV 1970 ^e	360	494	NA	854	819	40	859	1713	2440	2422	4862	657	3951	3281	7232
NOV 1971 ^e	337	490	NA	827	757	30	787	1614	2796	2620	5416	696	4319	3407	7726
NOV 1972 ^e	235	486	NA	721	761	30	791	1512	3362	3034	6396	721	4804	3825	8629
NOV 1973 ^e	224	473	NA	697	768	28	796	1493	3738	3302	7040	739	5174	4098	9272
NOV 1974 ^e	172	449	NA	621	724	28	752	1373	4175	3584	7759	821	5617	4336	9953
NOV 1975 ^e	100	384	NA	484	737	18	755	1239	4640	3796	8436	909	6033	4551	10584
NOV 1976 ^e	85	399	NA	484	691	18	709	1193	4878	4254	9132	893	6255	4963	11218
NOV 1977 ^e	85	315	89	400	655	8	663	1063	4974	4394	9368	1002	6376	5057	11433
NOV 1978 ^e	83	330	87	413	665	8	673	1086	5000	4571	9571	1118	6531	5244	11775
NOV 1979 ^e	75	355	89	430	671	8	679	1109	5126	4678	9804	1305	6861	5357	12218
NOV 1980 ^e	63	324	88	387	514	8	522	909	4933	4714	9647	1473	6793	5236	12029
NOV 1981 ^e	52	332	95	384	509	5	514	898	4766	4950	9716	1561	6711	5464	12175
MAY 1982 ^f	58	318	90	376	510	4	514	890	4593	4923	9516	1695	6664	5437	12101
NOV 1982 ^f	58	318	90	376	510	4	514	890	4684	4949	9633	1718	6778	5463	12241
MAY 1983 ^f	58	318	90	376	510	4	514	890	4739	5021	9760	1754	6869	5535	12404
NOV 1983 ^f	58	318	90	376	510	4	514	890	4762	5069	9831	1804	6942	5583	12525
MAY 1984 ^f	58	318	90	376	510	4	514	890	4771	5076	9847	1815	6962	5590	12552

a. The non-cellulosic fibers included are those listed in the September *Organon* issues each year. Yarn+mono includes olefin film fiber and spunbonded polypropylene. Staple +tow includes fiberfill.

b. The acetate production and producing capacity data include diacetate and triacetate. The acetate staple+tow data do not include the large poundages for cigarette filtration.

c. Textile glass fiber, all types.

d. Grand Total Yarn means the yarn+mono shown **plus** all textile glass fiber.

e. Actual producing capacity as of the date shown.

f. Future producing capacity planned for certain dates as of May 1982.

36.0 million pounds in the latest quarter, up 81% from the fourth quarter 1981 level.

First quarter 1982 imports of cotton manufactures exceeded exports, resulting in an **import balance** of 146.1 million pounds, 6½% less than the fourth quarter of 1982. The January-April 1982 **import balance** for wool manufactures totaled 18.7 million pounds, 14% less than the previous quarter.

U.S. APPAREL MARKET

The table on page 95 shows estimates of the 1978-1981 apparel market in the United States on a raw fiber basis. The table is based on available supply rather than actual consumption of apparel.

For 1981, total available supply of apparel was estimated at 5,456 million pounds, up 2% from 1980 and marginally below the 1979 level of 5,460 million pounds. However, in 1981 imports accounted for 28.4%

of total available apparel, versus 23.4% in 1980 and 21.8% in 1979.

The rise in imported apparel was particularly large in the case of cotton, rising from 29.2% of the total in 1979 to 40.5% in 1981. For man-made fiber apparel, imports rose from 16.3% of the total in 1979 to 20.4% last year.

FIBER INDUSTRIES TO CUT BACK POLYESTER CAPACITY

Celanese Corporation announced recently that it was reducing polyester filament yarn capacity at its Fiber Industries, Inc., subsidiary by 200 million pounds by August 1, 1982. In announcing the move, Celanese said that the capacity reductions would affect partially oriented yarn (POY) capacity at its Shelby, NC and Greenville, SC plants.

Celanese said the Shelby plant will continue to produce polyester low denier industrial yarn, flat polyester

NON-CELLULOSIC FIBER CAPACITY DETAIL

MILLION POUNDS & Average Denier

PERIOD	FILAMENT YARN, MONOFIL & OLEFIN FILM FIBER										STAPLE, TOW & FIBERFILL					NON-CELLULOSIC TOTAL		
	NYLON+ARAMID				POLYESTER		OLEFIN ^a				TOTAL	NYLON + ARAMID	ACRYL +MOD-ACRYL	POLY-ESTER	OLEFIN + VINYLON		TOTAL	
	IND	CARP	TEXTILE		IND	TEXTILE	YARN	MONO ^b	FILM ^b	OTHER ^c								
NOV 1970 ^d	480	428	569	NA	294	516	NA	110	119	106	18	2440	280	659	1370	113	2422	4862
NOV 1971 ^d	463	531	522	NA	337	559	NA	89	165	113	19	2796	460	698	1355	107	2620	5416
NOV 1972 ^d	469	626	559	NA	364	892	NA	96	177	159	20	3362	602	754	1571	107	3034	6396
NOV 1973 ^d	466	707	554	NA	385	1118	NA	106	214	190	18	3738	701	787	1709	105	3302	7040
NOV 1974 ^d	483	770	552	NA	403	1351	NA	125	254	221	16	4175	757	824	1899	104	3584	7759
NOV 1975 ^d	503	786	553	NA	391	1576	NA	168	313	354	16	4640	827	827	2021	121	3796	8436
NOV 1976 ^d	519	787	552	54	442	1701	133	178	312	371	16	4878	910	869	2355	120	4254	9132
NOV 1977 ^d	523	829	558	55	443	1698	126	173	336	398	16	4974	939	869	2470	116	4394	9368
NOV 1978 ^d	510	908	565	53	443	1643	116	174	347	394	16	5000	1023	865	2554	129	4571	9571
NOV 1979 ^d	513	950	579	51	443	1699	114	172	342	408	20	5126	1020	849	2673	146	4678	9804
NOV 1980 ^d	515	910	551	52	400	1637	113	120	350	430	20	4933	991	830	2759	134	4714	9647
NOV 1981 ^d	514	893	553	49	316	1481	114	178	356	455	20	4766	1010	835	2839	266	4950	9716
MAY 1982 ^d	518	920	532	50	337	1265	115	179	357	455	30	4593	987	844	2817	275	4923	9516
NOV 1982 ^e	528	933	536	50	337	1265	114	226	369	460	30	4684	987	849	2832	281	4949	9633
MAY 1983 ^e	533	950	537	49	340	1274	115	232	373	470	30	4739	1037	851	2852	281	5021	9760
NOV 1983 ^e	538	955	539	49	343	1274	115	235	378	470	30	4762	1055	856	2877	281	5069	9831
MAY 1984 ^e	546	960	523	49	345	1274	115	235	378	480	30	4771	1062	856	2877	281	5076	9847

IND means industrial yarn and monofil, i.e., 500 denier & coarser, with an Instron tenacity of 7 grams per denier or more. CARP means bulked continuous filament yarn for carpets. TEXTILE means yarn & monofil for other (textile) applications. Low denier industrial yarn is tabulated here also.

a. Olefin includes polyethylene & polypropylene. Not included here are data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbons, etc.

b. Olefin monofil includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene. Olefin film fiber includes slit and split or fibrillated fiber.

c. Other yarn & monofil is chiefly saran and spandex. Aramid data are included with nylon.

d. Actual producing capacity as of date shown.

e. Future producing capacity planned for certain & dates as of May 1982.

textile filament and specialty POY and polymers. The Greenville plant will continue to produce some POY as well as flat polyester textile yarns. The company will continue to strengthen its capability to produce high-speed POY and will remain a factor in both flat and partially oriented yarns.

DU PONT TO REDUCE NYLON CAPACITY

The Du Pont Company recently announced plans to shut down permanently 65 million pounds of obsolete textile nylon fiber producing capacity at its Chattanooga, TN, plant. The shutdown will begin within the next 90 days and is expected to be completed by the end of 1983.

The Du Pont Company gave worldwide overcapacity of nylon fibers and the uncompetitiveness of the equipment being shut down as the main reasons for the closure. Du Pont pointed out that in the past five years, some 800 million pounds of nylon fiber capacity has been shut down worldwide.

Editor's note: While it is true some 800 million pounds of nylon capacity has been shut down, total world capacity has increased due to new plant openings. Between March 1978 and March 1981 (from the July *Organon*), nylon capacity in West Europe, the U.S.A. and Japan had a net decline of 543 million pounds from their peaks, but capacity in East Europe, Other Americas and Other Africa, Asia & Oceania increased by 608 million pounds. However, these numbers do not take into account closures announced after March 1981.

U.S. MAN-MADE FIBER PRODUCING CAPACITY

As of the end of May, the U.S. man-made fiber producing industry had the capacity to produce 12,101 million pounds, 1/2% less than the capacity in place six months ago. The May 1982 capacity breaks down as: rayon+acetate fiber 890 million pounds; non-cellulosic yarn+monofilaments 4,593 million pounds; non-cellulosic staple 4,923 million pounds and textile glass 1,695 million pounds.

By May of 1984, total man-made fiber producing capacity is *projected* to be 12,552 million pounds, a 3 1/2% increase over current levels. The May 1984 total and percentage from May 1982 divides as: rayon+acetate 890 million pounds & no change; non-cellulosic yarn 4,771 million pounds & +4%; non-cellulosic staple+tow 5,076 million pounds & +3% and textile glass fiber 1,815 million pounds & +7%.

Capacity is based on the current and projected "mix" of denier, filament counts, packages, etc. It is *emphasized* that all figures refer to current and planned capacity. *They are not to be misinterpreted as a production forecast.* See page 213 of the December 1981 *Organon* issue for a detailed discussion of the survey coverage and definitions.

NON-CELLULOSIC FIBER CAPACITY

May 1982 non-cellulosic fiber capacity stood at 9,516 million pounds, 2% less than November 1981's level. By

U.S. PRODUCTION OF HOSIERY, 1968-1981

MILLION DOZEN PAIRS

	1968	1969	1970	1971	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981
WOMEN'S														
PANTYHOSE SHEER	15.3	44.9	81.7	60.7	76.0	68.9	54.4	51.6	55.1	47.6	44.6	55.3	57.3	59.6
ELASTOMER	}	1.6	14.2	6.7	4.8	2.3	3.8	4.7	8.8	13.8	19.4	27.7	33.2	36.7
OTHER ^a					2.6	2.3	0.9	0.9	1.5	1.7	1.6	2.4	2.0	2.4
SUBTOTAL PANTYHOSE	16.9	59.1	88.4	65.5	80.9	75.0	60.0	61.3	70.4	68.7	73.9	90.9	96.0	104.5
STOCKINGS NONSTRETCH	85.8	44.6	23.4	14.1	8.5	7.7	5.9	4.5	3.7	3.0	2.6	2.4	2.0	1.8
STRETCH	16.9	19.1	9.5	11.0	7.1	6.6	6.1	3.5	2.8	2.4	2.8	2.7	2.4	2.1
SUPPORT	}	1.9	2.8	1.8	1.3	0.9	0.8	0.8	0.7	0.9	1.0	0.7	0.7	0.6
OTHER		2.1	1.6	1.1	0.7	0.5	0.4	0.1	0.1	0.2	0.1	0.2	0.1	0.1
SUBTOTAL STOCKINGS	104.6	68.6	36.3	27.5	17.2	15.6	13.2	8.8	7.5	6.6	6.5	6.0	5.2	4.6
SHEER KNEE HIGHS & ANKLETS	0.4	0.4	1.0	2.1	4.6	9.3	15.5	27.6	35.9	35.3	30.5	44.8	38.4	42.6
TOTAL WOMEN'S	121.9	128.1	125.7	95.1	102.7	99.9	88.7	97.7	113.8	110.6	110.9	141.7	139.6	151.7
MEN'S (SIZES 10 AND UP)														
ANKLETS & FOOTSOCKS	41.2	48.1	54.1	49.7	52.9	52.9	53.9	51.2	51.5	50.7	51.7	43.7	27.9	27.8
MID CALF	5.6	5.3	5.7	6.1	6.9	6.8	6.1	6.3	7.7	9.5	11.3	12.5	17.4	19.9
KNEE HIGHS	3.3	3.8	4.4	3.9	3.7	4.0	4.2	5.7	6.8	9.1	13.4	16.0	17.8	20.7
TOTAL MEN'S	50.1	57.2	64.2	59.7	63.5	63.7	64.2	63.2	66.0	69.3	76.4	72.2	63.1	68.4
GIRLS', BOYS' & WOMEN'S (SIZES 8-11)														
ANKLETS	22.3	22.7	20.4	21.4	21.3	22.2	20.7	20.7	21.3	20.3	18.5	19.6	12.5	14.6
KNEE HIGHS	6.2	10.2	10.4	11.9	14.2	15.0	16.1	16.8	19.4	21.9	20.6	22.1	24.3	29.8
MID CALF - CREW	}	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1	4.5
WAIST HIGHS													0.3	0.5
FOOTSOCKS	1.7	2.6	2.8	2.7	4.5	4.0	4.6	4.4	5.7	6.8	7.6	6.7	8.6	9.4
TOTAL SIZES 8-11	30.2	35.5	33.6	36.0	40.0	41.2	41.4	41.9	46.4	49.0	46.7	48.4	48.8	58.8
INFANTS' & CHILDREN'S (SIZES 3-8½)														
ANKLETS	15.2	15.9	15.3	15.6	17.3	17.9	17.3	17.3	21.3	21.4	22.1	22.1	19.3	20.5
KNEE HIGHS	2.9	3.5	4.2	3.8	3.6	4.1	4.2	4.1	5.5	6.1	6.4	8.5	6.6	7.7
MID CALF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3	1.2
WAIST HIGHS & FOOTSOCKS	NA	1.2	1.1	0.7	0.8	0.6	0.6	0.6	0.9	1.0	1.3	1.6	1.6	1.8
TOTAL SIZES 3-8½	18.1	20.6	20.6	20.1	21.7	22.6	22.1	22.0	27.7	28.5	29.8	32.2	28.8	31.2
TOTAL HOSIERY	220.3	241.4	244.1	210.9	227.9	227.4	216.4	224.8	253.9	257.4	263.8	294.5	280.3	310.1

SOURCE: National Association of Hosiery Manufacturers - 1981 Hosiery Statistics

a. Includes opaque hosiery, which is defined as hosiery knit on 370 needles or more, using leg yarn 30 denier or coarser.

May 1984, capacity is expected to have reached 9,847 million pounds, an increase of 3½% over current levels.

The biggest decline of capacity between November 1981 and May 1982 occurred in polyester textile yarn; see accompanying story on Celanese closure. May 1982 capacity of textile polyester filament was 1,265 million pounds, 15% less than November 1981 capacity of 1,481 million pounds. By May 1984, this capacity is expected to grow by only ½%, to reach 1,274 million pounds.

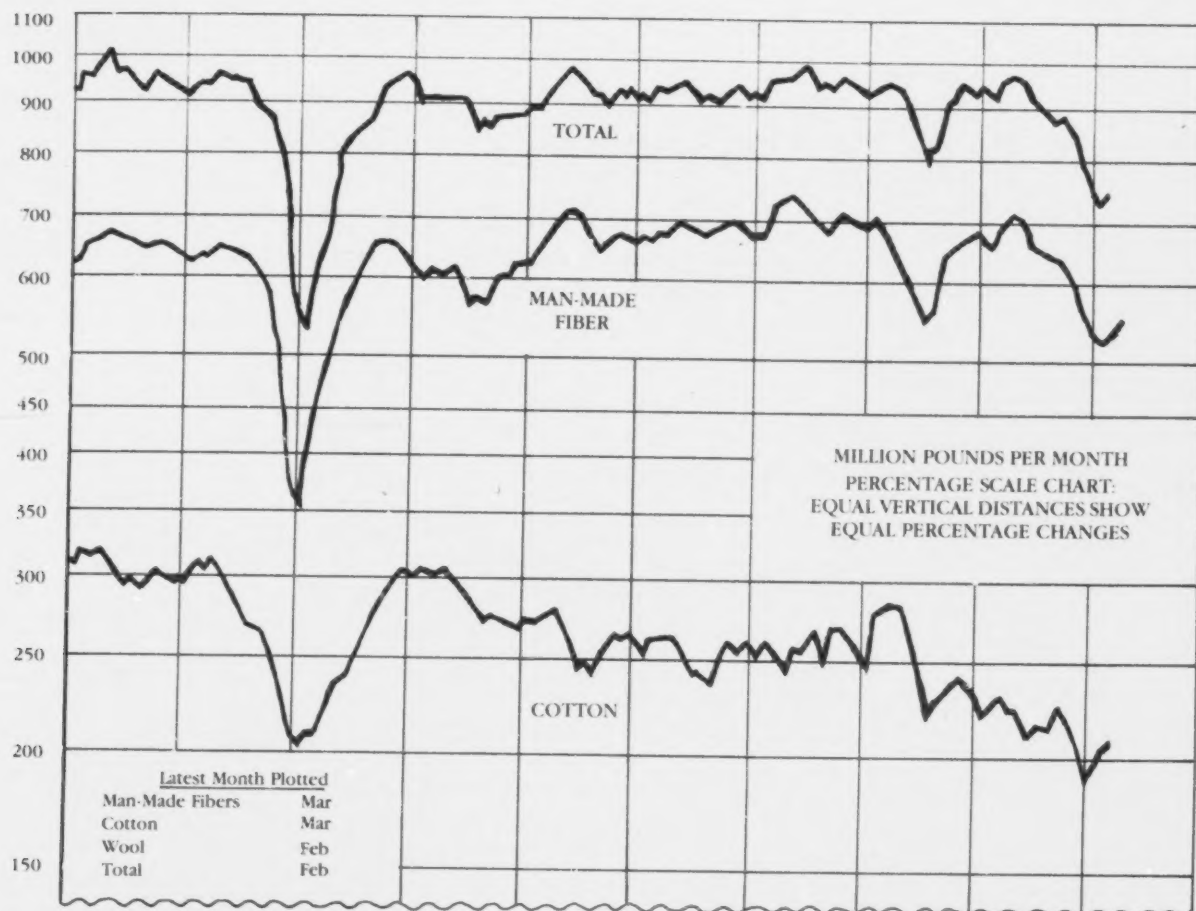
U.S. HOSIERY PRODUCTION

Production of all types of hosiery by U.S. manufacturers in 1981 totaled a record 310.1 million dozen pairs, 11% more than the 280.3 million dozen pairs produced in 1980. Annual production data presented in the table above (on page 98) are taken from the 48th Annual Report of the National Association of Hosiery Manufacturers. The full report is available from the Association, 516

Charlottetown Mall, Box 4098, Charlotte, NC 28204, for \$35.00.

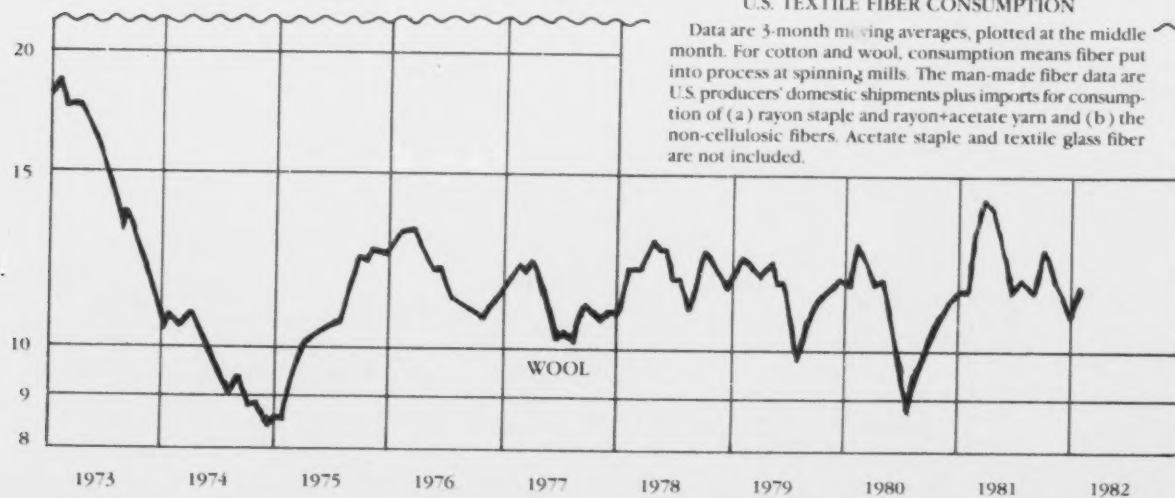
Other sections of the report show monthly and annual production, monthly and annual shipments, per capita consumption data, end-of-year stock and fiber content of hosiery by type. For the period January through April 1981, total hosiery production on a fiber basis was: cotton 12%, acrylic+modacrylic 15% and nylon 72%. This compares with the 1980 fiber breakdown of cotton 14%, other natural fibers 2%, acrylic+modacrylic 21%, nylon 62% and polyester 1%.

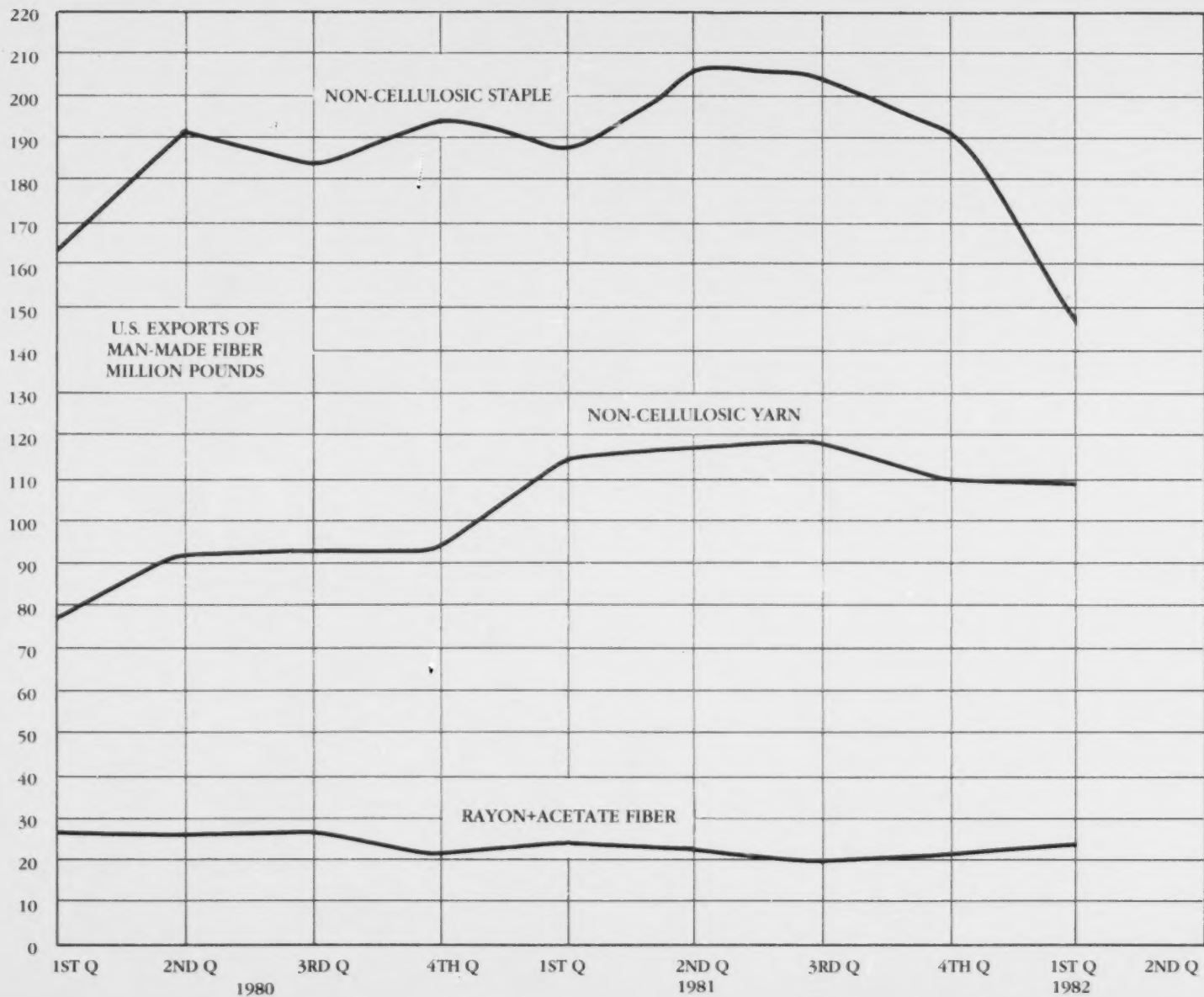
Also tabulated are the number of hosiery producing companies on a regional basis, the number of hosiery plants operated by these companies, the number of employees in the industry and the percentage of production by area. Imports and exports of hosiery are also analyzed.



U.S. TEXTILE FIBER CONSUMPTION

Data are 3-month moving averages, plotted at the middle month. For cotton and wool, consumption means fiber put into process at spinning mills. The man-made fiber data are U.S. producers' domestic shipments plus imports for consumption of (a) rayon staple and rayon+acetate yarn and (b) the non-cellulosic fibers. Acetate staple and textile glass fiber are not included.





U.S. EXPORTS OF MAN-MADE FIBERS

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1981					1982				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON+ACETATE											
FILAMENT YARN ^a											
TEXTURED	510.0006	93	75	72	117	357	132				
OTHER ^b	510.0026	8191	5829	4286	5608	23914	7194				
MONOFILAMENTS	309.0110	47	30	9	4	90	2				
STRIPS	309.2210	66	79	95	106	346	66				
SUBTOTAL ABOVE		8397	6013	4462	5835	24707	7394				
STAPLE-TOW RAYON	309.4222	12222	14234	14369	14331	55156	13772				
STAPLE ACETATE	309.4219	3692	2046	608	658	7004	919				
SUBTOTAL ABOVE		15914	16280	14977	14989	62160	14691				
WASTE, ADVANCED & NOT ADVANCED	309.7400	693	795	416	895	2799	1007				
NON-CELLULOSIC FIBERS											
FILAMENT YARN ^a											
NYLON TEXTURED	510.0008 & 0009	21787	17478	17656	12679	69600	9779				
HIGH TENACITY ^c	510.0027	18138	17544	11095	10623	57400	13520				
OTHER	510.0029	5461	4325	6280	3358	19424	3785				
POLYESTER TEXTURED	510.0010	48758	58681	65307	63406	236152	63471				
HIGH TENACITY ^c	510.0032	4870	5364	6299	6907	23440	5134				
OTHER ^d	510.0034	2380	3063	3117	3199	11759	2902				
OTHER TEXTURED	510.0014	4174	3082	2346	2149	11751	3235				
OLEFIN	510.0040	741	519	838	505	2603	224				
OTHER	510.0044	1566	1452	1183	1030	5231	1371				
MONOFILAMENTS, ALL DENIERS											
NYLON	309.0120	2387	1935	1879	1585	7786	1142				
POLYESTER ^e	309.0140	2816	1767	1362	1218	7163	1919				
OTHER	309.0170	1289	1314	1614	2343	6560	2085				
STRIPS	309.2220 & 2270	1366	1530	739	920	4555	799				
SUBTOTAL ABOVE		115733	118054	119715	109922	463424	109366				
STAPLE NYLON	309.4240	9443	7030	5848	5235	27556	4018				
POLYESTER	309.4242	108893	138242	144558	130988	522681	90356				
ACRYLIC	309.4245	41711	40137	39084	35729	156661	32810				
OLEFIN	309.4246	664	431	270	393	1758	522				
OTHER	309.4247	5015	5800	3637	3581	18033	4395				
GROUPED FILAMENTS											
NYLON	309.3220	1724	763	746	1328	4561	1539				
POLYESTER ^d	309.3240	9508	6706	3802	6761	26777	9528				
ACRYLIC	309.3250 & 3255	10076	8360	7144	7075	32655	5472				
SUBTOTAL ABOVE		187034	207469	205089	191090	790682	148640				
WASTE, ADVANCED & NOT ADVANCED											
NYLON	309.7620	3470	4141	3302	3025	13938	3542				
POLYESTER	309.7630	11606	13086	12419	17006	54117	17204				
ACRYLIC	309.7640	1874	1531	573	817	4795	574				
OTHER	309.7660	8718	9163	8717	7817	34415	7146				
TOTAL MAN-MADE FIBER ABOVE		353439	376532	369670	351396	1451037	309564				
TEXTILE GLASS FIBER	309.2700 & 9700	10180	8611	8553	11590	38934	11318				
GRAND TOTAL ABOVE		363619	385143	378223	362986	1489971	320882				

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and

cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be included with filament yarn.

SANS STATISTICS

ITT RAYONIER CLONES TREES

ITT Rayonier, the forest products unit of the International Telephone and Telegraph Corporation, recently announced that its researchers had successfully cloned, or replicated, slash pine trees from tissue cultures.

Although cloning is not new, the process had never

before been successfully applied to slash pines, which are used to make cellulose pulp for paper, acetate films and fibers and rayon fibers.

The company said that researchers planted about 200 slash pine seedlings cloned from cell tissue in an acre plot near Jacksonville, FL. It will take the slash pine seedlings up to 15 years to grow to a size where researchers could begin to judge how successful the project was in commercial terms.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEM & COUNTRY	1982						3 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE YARN, MONOFIL & STRIPS								
CANADA	0	15	0				15	451
MEXICO	155	76	157				388	403
BELGIUM	11	0	0				11	75
GERMANY, FED. REP. OF	502	275	218				995	1087
NETHERLANDS	86	77	17				180	1162
SPAIN	40	81	46				167	142
UNITED KINGDOM	0	0	0				0	11
JAPAN	20	42	36				98	64
ALL OTHER COUNTRIES ^a	47	22	28				97	24
TOTAL R+A YARN	861	588	502				1951	3419
RAYON+ACETATE STAPLE+TOW								
CANADA	155	167	191				513	1379
AUSTRIA	605	40	441				1086	1010
FRANCE	1	52	2				55	140
GERMANY, FED. REP. OF	42	44	43				129	85
ITALY	0	0	0				0	12
SWEDEN	464	0	871				1335	750
UNITED KINGDOM	117	2	108				227	309
AUSTRALIA	153	0	0				153	0
JAPAN	149	24	134				307	311
ALL OTHER COUNTRIES ^b	0	80	1				81	0
TOTAL R+A STAPLE	1686	409	1791				3886	3996
NON-CELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	295	156	101				552	152
COSTA RICA	117	27	0				144	0
MEXICO	0	1	2				3	46
FRANCE	128	114	79				321	427
GERMANY, FED. REP. OF	581	362	295				1238	913
ITALY	24	2	175				201	239
NETHERLANDS	2	1	7				10	10
UNITED KINGDOM	67	48	38				153	208
JAPAN	453	661	463				1577	1328
ALL OTHER COUNTRIES ^c	16	6	20				42	128
TOTAL N.C. YARN	1683	1378	1180				4241	3451
NON-CELLULOSIC STAPLE+TOW								
CANADA	439	310	864				1613	1127
MEXICO	177	27	57				261	315
BELGIUM	29	31	1				61	130
FRANCE	219	194	444				857	1039
GERMANY, FED. REP. OF	730	752	975				2457	4129
IRELAND	0	39	39				78	56
ITALY	58	23	153				234	1436
NETHERLANDS	141	89	58				288	83
ROMANIA	50	106	29				185	132
UNITED KINGDOM	195	250	259				704	1036
JAPAN	588	461	510				1559	1530
TAIWAN	616	194	436				1246	1657
ALL OTHER COUNTRIES ^d	16	5	1				22	95
TOTAL N.C. STAPLE	3258	2481	3826				9565	12765

Other countries supplying 1982 poundages are:

a. Austria 20, Brazil 28, France 44 & Italy 5.

b. Finland 80 & Mexico 1.

c. Austria 9, Belgium 11, Ireland 1, Rep. of

Korea 6, Romania 1, Sweden 6 & Switzerland 8.

d. Austria 2, German Dem. Rep. 15, Hong Kong 1, Israel 1 & Switzerland 3.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION
THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1982						3 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	5	0	28				33	11
OTHER	310.0130 & .0230 ^a	856	586	474				1916	3405
MONOFILAMENTS	309.0230 & .0610	0	2	0				2	3
STRIPS, \$1. LB & UNDER	309.2010 ^a	0	0	0				0	
SUBTOTAL ABOVE		861	588	502				1951	3419
STAPLE	309.3510 & .4325	1510	409	1623				3542	3560
GROUPED FILAMENTS	309.3010 & .3110	176		168				344	436
SUBTOTAL ABOVE		1686	409	1791				3886	3996
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	0	0	64				64	81
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED NYLON	310.0109 & .0209	423	174	125				722	629
POLYESTER	310.0110 & .0210	231	43	7				281	56
OTHER	310.0114 & .0214	32	26	69				127	81
OTHER NYLON	310.0149 & .0249	111	211	278				600	856
POLYESTER	310.0150 & .0250	551	691	368				1610	821
OTHER	310.0170 & .0270 ^b	164	81	140				385	466
MONOFILAMENTS	309.0200 & .0330 ^c	140	139	157				436	494
STRIPS, OVER \$1. LB	309.2100 & .2500 ^a	31	13	36				80	48
SUBTOTAL ABOVE		1683	1378	1180				4241	3451
STAPLE NYLON		392	209	400				1001	4909
POLYESTER	309.4342	487	517	933				1937	549
ACRYLIC	309.4345	526	474	962				1962	3570
OLEFIN	309.4346	1	30	1				32	309
OTHER	309.4355	899	292	581				1772	2103
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	460	530	345				1335	186
POLYESTER	309.3040 & .3140	0	0	17				17	42
ACRYLIC	309.3050 & .3150	297	376	553				1226	614
OTHER	309.3065 & .3165	196	53	34				283	483
SUBTOTAL ABOVE		3258	2481	3826				9565	12765
WASTE, NOT ADVANCED									
NYLON	309.6625	1882	1647	1838				5367	6007
POLYESTER	309.6630	1398	775	1580				3753	4428
ACRYLIC	309.6645	0	184	9				193	747
OTHER	309.6660	433	229	247				909	498
NOILS & GARNETTED FIBERS	309.6000 & .7000 ^a	0	20	0				20	0
OTHER WASTE, ADVANCED	309.7525 .7555	50	17	26				93	185
SUBTOTAL ABOVE		3763	2872	3700				10335	11865
TOTAL MAN-MADE ABOVE		11251	7728	11063				30042	35577
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED CELLULOSIC	310.1106	0	0						24
NON CELLULOSIC	310.1015 ^d & .1109 ^e	407	110	333				850	605
OTHER CELLULOSIC	310.1030 & .1135 ^f		6	67				73	16
NON CELLULOSIC	310.1050 & .1070 ^g	200	18	13				231	73
SPUN YARN - CELLULOSIC	310.4005 & .4030 ^h	28	0	18				46	59
OTHER	310.4015 & .4021 ⁱ	1570	1253	1374				4197	5010
OTHER YARNS - NES, INCL. CHENILLE	310.6029 .8000	205	89	190				484	722
HANDWORK YARNS & SEWING THREAD	310.9000 .9140	166	203	188				557	665
SILVER, TOPS & ROVING	309.9000	434	309	201				944	1183
TEXTILE GLASS FIBER	309.2800 & .2900 ^j	1737	1092	1011				3840	2644
GRAND TOTAL ABOVE		15998	10808	14458				41264	46577

SOURCE: U.S. Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
MAN-MADE FIBER DATA^c								
<u>YARN+MONOFILAMENTS^d</u>								
TOTAL SHIPMENTS^b								
ACETATE	19.1	16.9	17.7	19.4			73.1	91.1
NYLON ^e INDUSTRIAL ^f	26.2	29.2	31.5	31.1			118.0	132.0
LOW DENIER INDUSTRIAL ^g	2.6	2.3	2.6	2.5			10.0	12.6
CARPET	40.3	43.3	46.0	46.1			175.7	269.6
TEXTILE	27.9	27.0	29.5	28.4			112.8	146.0
POLYESTER INDUSTRIAL ^f	22.6	24.4	27.8	26.3			101.1	104.1
LOW DENIER INDUSTRIAL ^g	1.9	1.8	1.9	1.9			7.5	9.6
TEXTILE	75.4	87.8	88.5	88.2			339.9	425.7
OLEFIN ^h	50.1	50.4	51.0	48.9			200.4	224.7
TOTAL NON-CELLULOSIC ABOVEⁱ	247.0	266.2	278.8	273.4			1065.4	1334.3
<u>STAPLE+TOW+FIBERFILL^j</u>								
RAYON	30.3	28.9	29.1	31.6			119.9	155.6
NYLON ^e	48.0	48.3	49.7	55.9			201.9	292.1
ACRYLIC+MODACRYLIC	45.8	47.7	61.0	52.7			207.2	250.6
POLYESTER	173.3	176.4	174.0	161.7			685.4	865.8
OLEFIN+VINYON	8.3	10.2	11.4	10.8			40.7	44.0
TOTAL NON-CELLULOSIC ABOVE	275.4	282.6	296.1	281.1			1135.2	1452.5
<u>END-OF-MONTH STOCK</u>								
<u>YARN+MONOFILAMENTS</u>								
ACETATE	12.4	11.7	13.5	11.0			11.0	13.5
NYLON ^e INDUSTRIAL ^f	41.7	37.6	33.1	30.4			30.4	36.7
LOW DENIER INDUSTRIAL ^g	4.5	4.5	4.1	4.6			4.6	3.5
CARPET	62.3	58.0	55.5	54.1			54.1	33.4
TEXTILE	50.9	52.9	51.1	48.6			48.6	41.7
POLYESTER INDUSTRIAL ^f	23.7	25.1	25.2	24.6			24.6	20.9
LOW DENIER INDUSTRIAL ^g	4.0	3.4	3.8	3.7			3.7	3.6
TEXTILE	93.4	89.9	93.4	91.9			91.9	67.5
OLEFIN ^h	64.3	64.0	64.5	63.6			63.6	60.4
TOTAL NON-CELLULOSIC ABOVEⁱ	344.8	335.4	330.7	321.5			321.5	267.7
<u>STAPLE+TOW+FIBERFILL</u>								
RAYON	32.6	35.6	38.2	35.1			35.1	28.1
NYLON ^e	63.9	58.7	59.3	53.4			53.4	33.4
ACRYLIC+MODACRYLIC	68.6	65.2	60.2	67.7			67.7	68.5
POLYESTER	180.4	191.9	189.2	186.6			186.6	178.5
OLEFIN+VINYON	30.0	31.3	31.6	29.3			29.3	15.3
TOTAL NON-CELLULOSIC ABOVE	342.9	347.1	340.3	337.0			337.0	295.7
<u>WOOL & COTTON CONSUMPTION</u>								
APPAREL CLASS WOOL	11.6	10.6	13.0				35.2	37.7
CARPET CLASS WOOL	0.7	0.9	1.0				2.6	2.5
TOTAL RAW WOOL	12.3	11.5	14.0				37.8	40.2
RAW COTTON	207.2	195.8	229.8	213.5			846.3	948.0

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spun-bonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February issue.

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World Man-Made Fiber Survey

This issue features updated production and net available supply data for the 1980 world man-made fiber survey. Reports received subsequent to publication of last year's June world survey have been incorporated to present more precise data for 1980.

Earlier years' world data for most of the tables contained in this issue will also be found in the January 1962 *Organon* Base Book and in the June 1966, 1970, 1979, 1980 and 1981 issues.

As in the past, all data in this issue are in *metric tons* except for the U.S. data on pages 132-136. The tables on pages 105, 107-111 & 113 will be published in the July issue showing data in *millions of pounds*.

This issue also contains the customary world directory of man-made fiber producers. The 1981 world man-made fiber survey will be published as a supplement to this issue and will be issued with the July *Organon*. Included will be the 1981 production data by country and by fiber, as well as the projected producing capacities for 1982 and 1983, and data for olefin, textile glass, cigarette tow and acetate staple. 1981 import-export data used to tabulate net available supply by country are not complete at this time; consequently, when these data are obtained, the 1981 net available supply table will be published in the *Organon*.

WORLD PRODUCTION OF CERTAIN TEXTILE FIBERS

THOUSAND METRIC TONS & Percent

TYPE OF FIBER	1975	1976	1977	1978	1979	1980
RAYON+ACETATE FIBERS (from page 111)						
YARN-MONOFILAMENTS	1,136	1,188	1,172	1,167	1,176	1,161
STAPLE-TOW	1,823	2,022	2,109	2,151	2,195	2,081
TOTAL RAYON+ACETATE	2,959	3,210	3,281	3,318	3,371	3,242
NON-CELLULOSIC FIBERS except Olefin (from page 107)						
YARN-MONOFILAMENTS	3,763	4,128	4,312	4,603	4,898	4,745
STAPLE-TOW	3,590	4,473	4,857	5,431	5,710	5,747
TOTAL NON-CELL. ABOVE	7,353	8,601	9,149	10,034	10,608	10,492
TOTAL MAN-MADE ABOVE	10,312	11,811	12,430	13,352	13,979	13,734
% of World Total	44	46	45	48	47	46
NATURAL FIBERS						
RAW COTTON	11,757	12,480	13,921	12,973	14,270	14,266
RAW WOOL	1,538	1,487	1,488	1,528	1,573	1,581
RAW SILK	47	48	49	51	55	56
TOTAL NATURAL ABOVE	13,342	14,015	15,458	14,552	15,898	15,903
% of World Total	56	54	55	52	53	54
WORLD TOTAL ABOVE	23,654	25,826	27,888	27,904	29,877	29,637
World Total %	100	100	100	100	100	100

The silk and man-made fiber data are on a calendar-year basis, while the figures for cotton and wool are on a seasonal basis.

MAN-MADE FIBERS: Data are from pages 107 and 111, as noted. Textile glass fiber and olefin production are not included.

COTTON: International Cotton Advisory Committee. Also see October 1981 *Organon*.

WOOL: Commonwealth Secretariat. The data are on a scoured basis. Also see the December 1981 *Organon* issue.

SILK: International Silk Association; Food and Agriculture Organization of the United Nations.

ACKNOWLEDGEMENTS

The cooperation of more than 100 foreign man-made fiber associations, producing companies and individuals, as well as the U.S. Foreign Service posts reporting through the Office of Textiles, Domestic and International Business Administration, U.S. Department of Commerce, is acknowledged with thanks. The editors welcome information concerning any data which may be omitted or incorrect.

IMPORTS, EXPORTS & BALANCE

The by-country production, import, export and net available or retained supply of four categories of man-made fiber are tabulated on page 113 covering calendar 1980 only. These data have been updated owing to the availability of more complete data at this time.

In the page 113 table, "yarn" includes tire cord and tire cord fabric, filament yarn and monofilaments. Staple includes tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

In a few cases where a country's import or export data could not be accurately separated as rayon+acetate versus non-cellulosic, a division was estimated.

Except for spun yarn imports and exports, imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric dresses, hosiery, etc.) are not included in the data.

The table shows the net import-export tonnage of spun yarn under the "Total Man-Made Fiber" columns; space does not permit the presentation of import and export data separately.

SHIPMENTS BY PRIMARY TRADE OR END USE

The tables on pages 132 and 133 exhibit producer shipments of yarn+monofilament and staple+tow by primary trade or end use. The first quarter 1982 total of 1,567.0 million pounds was 18% below the first quarter 1981 total of 1912.6 million pounds. Yarn+monofilament shipments fell 19% during the first quarter, to 772.8 million pounds, and staple+tow shipments fell by 17% to 794.2 million pounds against the same period of last year.

The fiber-by-fiber yarn+monofilament analysis is as follows: Shipments of polyester filament yarn fell 16%, to 297.2 million pounds; nylon filament yarn shipments fell 25%, to 283.9 million pounds; shipments of olefin filament yarn, at 146.8 million pounds, fell 11% and acetate filament yarn shipments fell 16%, to 44.9 million pounds.

Though yarn+monofilament shipments fell in general, polyester yarn deliveries to the tire trades, at 43.7 million pounds, were 1% above the year-ago level, and shipments to other rubber industry were up 14% to 8.4

(Continued on page 131)

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Textile Organon

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WORLD NON-CELLULOSIC FIBER PRODUCTION BY FIBER EXCEPT OLEFIN THOUSAND METRIC TONS

FIBER & AREA	ACTUAL PRODUCTION																	
	1975			1976			1977			1978			1979			1980		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC																		
WEST EUROPE	1	539	540	+	734	734	+	677	677	+	794	794	+	795	795	+	729	729
EAST EUROPE	0	163	163	0	172	172	0	184	184	0	200	200	0	213	213	0	216	216
U.S.A.	0	238	238	0	282	282	0	322	322	0	329	329	0	345	345	0	354	354
OTHER AMERICAS	0	66	66	0	82	82	0	82	82	0	98	98	0	108	108	0	111	111
JAPAN	2	241	243	2	308	310	3	335	338	3	370	373	4	355	359	3	350	353
ALL OTHER	0	141	141	0	162	162	0	187	187	0	227	227	0	249	249	0	304	304
TOTAL	3	1388	1391	2	1740	1742	3	1787	1790	3	2018	2021	4	2065	2069	3	2064	2067
NYLON+ARAMID																		
WEST EUROPE	542	88	630	633	122	755	566	122	688	566	150	716	571	148	719	522	152	674
EAST EUROPE	327	28	355	387	28	415	394	31	425	405	31	436	414	31	445	461	55	516
U.S.A.	588	255	843	623	319	942	686	369	1055	750	407	1157	808	426	1234	740	330	1070
OTHER AMERICAS	157	18	175	171	19	190	174	20	194	187	22	209	205	23	228	209	23	232
JAPAN	264	15	279	285	16	301	292	16	308	293	16	309	296	17	313	300	18	318
ALL OTHER	205	2	207	243	3	246	265	3	268	309	3	312	341	3	344	364	2	366
TOTAL	2083	406	2489	2342	507	2849	2377	561	2938	2510	629	3139	2635	648	3283	2596	580	3176
POLYESTER																		
WEST EUROPE	361	321	682	393	406	799	367	409	776	393	429	822	407	445	852	354	396	750
EAST EUROPE	76	204	280	87	227	314	94	291	385	112	304	416	118	308	426	131	320	451
U.S.A.	662	696	1358	637	878	1515	722	930	1652	710	1014	1724	779	1117	1896	663	1146	1809
OTHER AMERICAS	162	88	250	167	101	268	192	120	312	196	134	330	214	164	378	216	169	385
JAPAN	199	246	445	251	284	535	278	294	572	318	319	637	314	318	632	305	320	625
ALL OTHER	181	170	351	209	255	464	235	368	603	321	500	821	386	554	940	432	651	1083
TOTAL	1641	1725	3366	1744	2151	3895	1888	2412	4300	2050	2700	4750	2218	2906	5124	2101	3002	5103
OTHER FIBERS^a EXCEPT OLEFIN																		
WEST EUROPE	3	11	14	4	11	15	4	10	14	3	9	12	5	11	16	4	11	15
EAST EUROPE	8	6	14	9	6	15	9	5	14	9	7	16	5	7	12	7	7	14
U.S.A.	5	1	6	6	1	7	7	1	8	7	1	8	8	1	9	9	+	9
OTHER AMERICAS	+	0	+	1	0	1	1	0	1	1	0	1	1	0	1	1	0	1
JAPAN	15	39	54	15	43	58	17	45	62	15	42	57	17	42	59	18	43	61
ALL OTHER	5	14	19	5	14	19	6	16	22	5	25	30	5	30	35	6	40	46
TOTAL	36	71	107	40	75	115	44	77	121	40	84	124	41	91	132	45	101	146
TOTAL FIBERS ABOVE																		
WEST EUROPE	907	959	1866	1030	1273	2303	937	1218	2155	962	1382	2344	983	1399	2382	880	1288	2168
EAST EUROPE	411	401	812	483	433	916	497	511	1008	526	542	1068	537	559	1096	599	598	1197
U.S.A.	1255	1190	2445	1266	1480	2746	1415	1622	3037	1467	1751	3218	1595	1889	3484	1412	1830	3242
OTHER AMERICAS	319	172	491	339	202	541	367	222	589	384	254	638	420	295	715	426	303	729
JAPAN	480	541	1021	553	651	1204	590	699	1280	629	747	1376	631	732	1363	626	731	1357
ALL OTHER	391	327	718	457	434	891	506	574	1080	635	755	1390	732	836	1568	802	997	1799
WORLD TOTAL	3763	3590	7353	4128	4473	8601	4312	4837	9149	4603	5431	10034	4898	5710	10608	4745	5747	10492

Y means yarn+monofilaments. S means staple+tow+fiberfill. The regional totals here are the same as those on pages 108-109.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE fluorocarbon, vinal and vinyon.

WORLD NON-CELLULOSIC FIBER PRODUCTION BY COUNTRY (EXCEPT OLEFIN)

THOUSAND METRIC TONS

WEST EUROPE																	
YEAR	AUS-TRIA	BENELUX ^a			EIRE (IRELAND)			FIN-LAND	FRANCE			WEST GERMANY			GREECE		
	S	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	16.7	76.7	46.2	122.9	6.0	6.0	12.0	1.1	85.5	119.0	204.5	321.7	303.6	625.3	5.4	0	5.4
1976	27.4	84.5	61.8	146.3	6.3	9.0	15.3	0.8	105.1	143.7	248.8	369.0	390.4	759.4	8.3	5.0	13.3
1977	25.9	85.1	54.2	139.3	2.4	12.5	14.9	0.4	100.3	143.6	243.9	325.0	365.2	690.2	7.7	7.5	15.2
1978	30.4	94.7	48.0	142.7	8.3	26.0	34.3	0.5	91.7	154.7	246.4	326.0	403.4	729.4	8.5	7.9	16.4
1979	29.3	95.2	40.4	135.6	10.8	32.0	42.8	0.4	78.7	145.3	224.0	338.0	421.5	759.5	9.2	9.5	18.7
1980	25.4	71.9	32.4	104.3	10.0	31.7	41.7	0.4	65.3	126.7	192.0	317.7	402.4	720.1	9.0	10.0	19.0
WEST EUROPE (Continued)																	
YEAR	ITALY/MALTA			PORTUGAL			SPAIN			SWE-DEN	SWITZERLAND			TURKEY			
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	
1975	115.0	161.9	276.9	1.4	5.7	7.1	45.5	73.7	119.2	0.9	44.8	20.7	65.5	18.9	28.3	47.2	
1976	130.7	245.9	376.6	1.7	10.1	11.8	54.1	94.4	148.5	1.0	49.4	27.3	76.7	18.5	44.2	62.7	
1977	118.4	211.7	330.1	1.5	16.6	18.1	55.1	104.6	159.7	0.1	49.0	28.7	77.7	15.0	65.5	80.5	
1978	117.9	236.5	354.4	1.6	26.1	27.7	60.8	129.1	189.9	0.1	49.8	33.4	83.2	22.1	60.6	82.7	
1979	126.6	233.6	360.2	1.7	29.2	30.9	71.7	141.4	213.1	0.1	49.1	30.0	79.1	30.0	77.0	107.0	
1980	124.9	229.9	354.8	1.4	32.1	33.5	64.9	142.5	207.4	0.1	60.7	23.7	84.4	28.0	70.0	98.0	
W. EUROPE (Cont.)																	
YEAR	UNITED KINGDOM			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUNGARY				
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT		
1975	184.0	177.1	361.1	10.7	31.0	41.7	44.3	18.9	63.2	49.0	62.8	111.8	2.8	8.0	10.8		
1976	200.1	214.1	414.2	13.0	28.9	41.9	49.0	19.6	68.6	51.0	66.6	117.6	3.2	8.0	11.2		
1977	176.7	182.1	358.8	12.5	31.5	44.0	46.0	23.0	69.0	53.0	71.0	124.0	3.2	13.1	16.3		
1978	180.9	225.5	406.4	13.0	33.0	46.0	49.0	25.0	74.0	53.5	74.0	127.5	3.3	15.4	18.7		
1979	171.4	209.7	381.1	13.0	35.0	48.0	50.0	22.0	72.0	54.6	77.9	132.5	3.2	14.8	18.0		
1980	125.9	161.7	287.6	12.8	37.0	49.8	54.0	22.4	76.4	57.0	82.0	139.0	5.8	13.8	19.6		
EAST EUROPE (Continued)																	
YEAR	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EUROPE				
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT		
1975	53.4	65.0	118.4	17.0	67.6	84.6	229.0	133.0	362.0	5.4	14.4	19.8	1318.5	1359.6	2678.1		
1976	69.7	68.5	138.2	28.0	86.0	114.0	260.0	140.0	400.0	9.3	15.5	24.8	1512.7	1706.4	3219.1		
1977	81.2	65.5	146.7	29.0	95.0	124.0	265.0	191.0	456.0	7.3	20.3	27.6	1433.9	1728.5	3162.4		
1978	85.2	66.9	152.1	30.0	100.0	130.0	275.0	200.0	475.0	17.0	28.0	45.0	1488.9	1923.9	3412.8		
1979	87.4	65.9	153.3	35.0	105.0	140.0	273.0	203.0	476.0	21.0	35.0	56.0	1520.1	1957.5	3477.6		
1980	94.5	68.5	163.0	33.0	103.0	136.0	319.0	231.0	550.0	23.0	40.0	63.0	1479.3	1886.2	3365.5		

Y means yarn+monofilaments. S means staple+tow+fiberfill.
TOT means total.

These totals do not contain data for the fibers produced in

North Korea.

a. Benelux includes Belgium, Netherlands and Luxembourg.

WORLD NON-CELLULOSIC FIBER PRODUCTION BY COUNTRY (EXCEPT OLEFIN) (Continued)

THOUSAND METRIC TONS

YEAR	U.S.A.			OTHER AMERICAS												COSTA RICA	
	Y	S	TOT	ARGENTINA			BRAZIL			CANADA			CHILE				
				Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT		
1975	1254.6	1190.6	2445.2	26.3	19.8	46.1	80.1	45.5	125.6	64.3	31.5	95.8	3.4	1.9	5.3	0	
1976	1265.9	1479.9	2745.8	23.2	16.8	40.0	96.6	60.7	157.3	63.8	32.8	96.6	4.0	3.0	7.0	+	
1977	1415.2	1622.0	3037.2	24.4	15.8	40.2	95.6	64.2	159.8	69.3	43.5	112.8	4.0	2.2	6.2	+	
1978	1466.8	1751.2	3218.0	22.2	17.0	39.2	105.7	74.5	180.2	72.2	50.9	123.1	4.4	1.5	5.9	2.0	
1979	1594.5	1889.2	3483.7	29.6	22.6	52.2	122.5	91.4	213.9	73.1	48.5	121.6	5.0	2.4	7.4	2.0	
1980	1411.6	1830.5	3242.1	21.3	12.9	34.2	136.4	95.0	231.4	74.0	48.0	122.0	5.0	2.5	7.5	3.0	
OTHER AMERICAS (Continued)																	
YEAR	COLOMBIA			ECUA-DOR	GUAT-EMALA	MEXICO			PERU			URUGUAY			VENEZUELA		
	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	20.5	6.8	27.3	0.3	0	107.7	47.3	155.0	5.6	13.6	19.2	1.0	0	1.0	10.3	5.1	15.4
1976	27.7	6.2	33.9	1.8	0	104.9	57.7	162.6	3.8	19.8	23.6	1.1	0	1.1	11.5	5.3	16.8
1977	32.7	6.1	38.8	2.3	0	120.4	65.6	186.0	5.6	19.2	24.8	1.1	+	1.1	11.7	5.7	17.4
1978	33.2	7.8	41.0	2.5	0	123.4	75.9	199.3	5.6	20.5	26.1	1.1	+	1.1	11.5	5.5	17.0
1979	28.7	8.0	36.7	3.4	+	136.1	93.0	229.1	7.0	21.0	28.0	1.1	2.4	3.5	11.7	6.1	17.8
1980	23.0	10.9	33.9	3.5	0	137.0	102.4	239.4	10.5	22.5	33.0	1.1	2.6	3.7	11.5	6.0	17.5
YEAR	TOTAL OTHER AMERICAS			JAPAN			OTHER AFRICA, ASIA & OCEANIA										
	Y	S	TOT	Y	S	TOT	AUSTRALIA/N.Z.			BANG-LADESH	PEOPLE'S REPUBLIC OF CHINA						
							Y	S	TOT	Y	Y	S	TOT				
1975	319.5	171.5	491.0	480.0	540.9	1020.9	19.5	1.2	20.7	0.4	13.1	32.6	45.7				
1976	338.4	202.3	540.7	553.7	650.4	1240.1	20.0	1.0	21.0	0.4	15.0	37.0	52.0				
1977	367.1	222.3	589.4	590.2	690.2	1280.4	17.5	1.2	18.7	0.3	18.0	42.0	60.0				
1978	383.8	253.6	637.4	629.0	747.0	1376.0	18.1	1.1	19.2	0.5	30.0	106.6	136.6				
1979	420.2	295.4	715.6	631.2	731.9	1363.1	16.4	0.5	16.9	0.2	45.0	128.0	173.0				
1980	426.3	302.8	729.1	625.7	731.1	1356.8	13.0	+	13.0	0.3	66.0	204.0	270.0				
OTHER AFRICA, ASIA & OCEANIA (Continued)																	
YEAR	EGYPT			INDIA			INDONESIA			IRAN			ISRAEL				
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT		
1975	0.3	0.5	0.8	20.1	13.3	33.4	3.6	4.2	7.8	6.8	0	6.8	4.0	5.6	9.6		
1976	0.6	0.6	1.2	24.2	19.7	43.9	11.0	25.0	36.0	8.7	0	8.7	5.7	6.2	11.9		
1977	0.8	0.4	1.2	25.6	21.6	47.2	17.3	37.2	54.5	8.5	0	8.5	5.8	5.6	11.4		
1978	0.8	0.4	1.2	32.8	25.7	58.5	21.3	45.4	66.7	9.0	+	9.0	8.9	6.2	15.1		
1979	1.5	0.4	1.9	35.8	27.8	63.6	22.7	50.3	73.0	5.0	0	5.0	9.9	6.4	16.3		
1980	1.8	5.0	6.8	39.7	30.8	70.5	41.5	53.9	95.4	4.5	0	4.5	10.5	6.6	17.1		
OTHER AFRICA, ASIA & OCEANIA (Continued)																	
YEAR	KENYA			REPUBLIC OF KOREA			MALAY-SIA	NIGERIA			PAKISTAN			PHILIPPINES			SING-APORE
	Y	S	TOT	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1975	0	0	0	120.0	142.7	262.7	10.0	0	0	0	1.8	0	1.8	11.0	7.8	18.8	+
1976	0	0	0	141.3	168.0	309.3	15.0	0	0	0	2.4	0	2.4	14.0	7.8	21.8	0
1977	0	0	0	162.5	187.4	349.9	30.0	0	+	+	2.2	0	2.2	14.9	7.8	22.7	0
1978	0	0	0	208.0	224.5	432.5	33.0	+	3.0	3.0	1.9	0	1.9	16.0	8.6	24.6	0
1979	+	0	+	237.2	240.1	477.3	35.0	3.0	4.0	7.0	2.0	0	2.0	25.0	11.6	36.6	0
1980	1.0	0	1.0	255.2	281.2	536.4	36.0	2.5	2.5	5.0	1.5	0	1.5	30.0	14.0	44.0	0
OTHER AFRICA, ASIA & OCEANIA (Continued)																	
YEAR	SOUTH AFRICA			SRI LANKA	TAIWAN			THAILAND			TOTAL OTHER A, A & O			WORLD TOTAL EXCEPT OLEFIN			
	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	20.4	4.8	25.2	0	148.7	85.9	234.6	20.7	18.4	39.1	390.4	327.0	717.4	3763.0	3589.6	7352.6	
1976	27.4	13.0	40.4	0	160.7	111.7	272.4	25.8	29.4	55.2	457.2	434.4	891.6	4127.9	4473.4	8601.3	
1977	25.7	13.5	39.2	0	175.4	189.0	364.4	31.7	38.1	69.8	506.2	573.8	1080.0	4312.6	4836.8	9149.4	
1978	29.4	16.5	45.9	0	223.5	240.7	464.2	34.7	43.6	78.3	634.9	755.3	1390.2	4603.4	5131.0	10034.4	
1979	32.2	19.5	51.7	0	256.8	264.5	521.3	39.7	49.9	87.6	732.4	836.0	1568.4	4898.4	5710.0	10608.4	
1980	33.5	20.0	53.5	0	264.6	293.2	557.8	36.5	49.5	86.0	802.1	996.7	1798.8	4745.0	5747.3	10492.3	

WORLD RAYON+ACETATE PRODUCTION BY COUNTRY

THOUSAND METRIC TONS

THOUSAND METRIC TONS

WEST EUROPE																	
YEAR	AUSTRIA			BELGIUM/ NETHERLANDS			FINLAND			FRANCE			WEST GERMANY			GREECE	
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	
1975	10.2	74.0	84.2	35.3	10.7	46.0	0.7	29.4	30.1	28.1	55.3	83.4	48.8	43.0	91.8		5.9
1976	15.0	88.9	103.9	39.0	21.4	60.4	0.9	31.2	32.1	24.4	60.3	84.7	66.3	51.0	117.3		6.7
1977	12.6	90.2	102.8	36.2	23.0	59.2	1.2	39.8	41.0	20.8	60.7	81.5	63.7	46.0	109.7		7.2
1978	11.3	96.0	107.3	36.0	23.6	59.6	1.2	42.8	44.0	19.3	55.2	74.5	59.7	49.0	108.7		7.2
1979	12.0	98.8	110.8	36.1	26.9	63.0	1.2	48.0	49.2	18.5	58.9	77.4	58.1	50.0	108.1		7.2
1980	15.3	100.6	115.9	37.4	22.0	59.4	0.6	47.2	47.8	16.4	49.6	66.0	65.2	46.0	111.2		7.2

WEST EUROPE (Continued)																	
YEAR	ITALY			NOR- WAY	PORTUGAL			SPAIN			SWEDEN			SWITZ- ERLAND	TURKEY		
	Y	S	TOT		Y	S	TOT	Y	S	TOT	Y	S	TOT		Y	Y	S
1975	41.3	46.3	87.6	18.4	2.4	1.1	3.5	16.4	35.8	52.2	1.1	18.5	19.6	3.7	0.3	3.7	4.0
1976	46.7	59.8	106.5	26.1	2.5	1.4	3.9	15.6	41.0	56.6	0	30.4	30.4	4.4	0.3	3.9	4.2
1977	44.4	62.3	106.7	24.6	2.6	1.4	4.0	15.0	43.1	58.1	0	33.1	33.1	4.7	0.3	4.0	4.3
1978	39.3	46.9	86.2	28.4	2.1	1.2	3.3	13.8	46.6	60.4	0	36.9	36.9	4.1	0.3	4.0	4.3
1979	38.4	39.0	77.4	29.3	2.5	1.7	4.2	12.6	45.3	57.9	0	36.9	36.9	3.3	0.3	6.0	6.3
1980	36.6	27.5	64.1	28.4	2.7	0.7	3.4	12.8	40.1	52.9	0	34.9	34.9	1.8	0.3	5.0	5.3

WEST EUROPE (Continued)									EAST EUROPE								
YEAR	UNITED KINGDOM			TOTAL WEST EUROPE			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUN- GARY	
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	S	
1975	62.5	126.7	189.2	256.7	462.9	719.6	2.5	19.0	21.5	21.4	49.6	71.0	32.9	135.6	168.5	8.8	
1976	70.6	118.6	189.2	292.4	534.0	826.4	3.0	23.6	26.6	21.9	50.3	72.2	36.2	136.8	173.0	9.0	
1977	62.6	113.6	176.2	271.3	541.8	813.1	3.0	25.7	28.7	22.0	50.6	72.6	36.0	131.0	167.0	9.1	
1978	59.7	124.4	184.1	254.0	555.0	809.0	3.2	27.8	31.0	21.5	49.5	71.0	34.0	129.2	163.2	9.0	
1979	59.2	139.2	198.4	249.4	580.0	829.4	3.2	30.0	33.2	22.0	36.0	58.0	35.0	130.0	165.0	8.6	
1980	36.7	109.3	146.0	233.0	511.3	744.3	3.3	33.0	36.3	19.8	34.9	54.7	36.5	132.0	168.5	9.0	

EAST EUROPE (Continued)															
YEAR	POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EAST EUROPE		
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	28.3	67.4	95.7	14.0	48.9	62.9	281.4	309.0	590.4	14.0	49.9	63.9	394.5	688.2	1082.7
1976	28.7	66.9	95.6	11.0	53.9	64.9	286.1	325.8	611.9	15.1	50.0	65.1	402.0	716.3	1118.3
1977	28.6	67.1	95.7	9.0	50.4	59.4	295.0	334.0	629.0	14.9	56.0	70.9	408.5	723.9	1132.4
1978	28.0	65.4	93.4	9.5	53.0	62.5	300.0	335.0	635.0	15.0	57.0	72.0	411.2	725.9	1137.1
1979	27.2	56.6	83.8	9.7	55.0	64.7	298.0	337.0	635.0	15.5	58.0	73.5	410.6	711.2	1121.8
1980	25.4	61.0	86.4	9.5	54.0	63.5	305.0	345.0	650.0	15.0	58.0	73.0	414.5	726.9	1141.4

Y means yarn+monofilaments. S means staple+tow. TOT means total.

These totals do not include data for the Indonesian pilot plant nor production of cellulosic fibers in North Korea.

WORLD RAYON+ACETATE PRODUCTION BY COUNTRY (Continued)

THOUSAND METRIC TONS

YEAR	U.S.A.			OTHER AMERICAS											
				ARGENTINA			BRAZIL			CANADA			CHILE		
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	166.1	173.7	339.8	7.3	7.2	14.5	30.7	18.5	49.2	13.1	14.6	27.7	0.7	2.2	2.9
1976	160.8	220.6	381.4	5.3	5.0	10.3	34.2	19.7	53.9	5.7	21.2	26.9	1.0	3.0	4.0
1977	160.0	242.7	402.7	5.5	5.7	11.2	28.8	21.7	50.5	11.0	26.2	37.2	0.9	2.9	3.8
1978	164.6	245.7	410.3	4.4	3.8	8.2	24.1	22.4	46.5	12.3	26.8	39.1	0.8	3.3	4.1
1979	169.4	252.4	421.8	5.1	4.7	9.8	24.4	25.5	49.9	14.1	31.3	45.4	1.0	3.0	4.0
1980	161.3	204.3	365.6	2.0	1.5	3.5	26.0	25.3	51.3	14.0	30.0	44.0	1.0	3.0	4.0

OTHER AMERICAS (Continued)															
COLOMBIA				CUBA			MEXICO			PERU	URU-GUAY	VENE-ZUELA	TOTAL OTHER AMERICAS		
Y	S	TOT		Y	S	TOT	Y	S	TOT	Y	Y	Y	Y	S	TOT
1975	3.9	1.7	5.6	2.3	3.7	6.0	18.4	11.8	30.2	1.8	1.1	3.3	82.6	59.7	142.3
1976	3.4	0	3.4	2.5	3.5	6.0	19.5	11.4	30.9	2.1	1.1	2.8	77.6	63.8	141.4
1977	3.3	0	3.3	2.4	3.7	6.1	18.7	8.8	27.5	1.3	1.2	3.0	76.1	69.0	145.1
1978	3.4	0	3.4	2.3	3.7	6.0	17.2	10.5	27.7	1.1	1.3	3.0	69.9	70.5	140.4
1979	3.4	0	3.4	2.4	3.8	6.2	17.1	10.3	27.4	1.3	1.4	3.0	73.2	78.6	151.8
1980	2.4	0	2.4	2.2	3.8	6.0	16.8	11.0	27.8	1.5	1.3	2.8	70.0	74.6	144.6

OTHER AFRICA, ASIA & OCEANIA															
JAPAN				AUS-TRALIA	BANG-LADESH	PEOPLE'S REPUBLIC OF CHINA			EGYPT			INDIA			INDO-NESIA
Y	S	TOT		Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	S
1975	103.2	255.6	358.8	3.0	1.6	49.0	61.0	110.0	6.3	3.3	9.6	54.2	67.1	121.3	0
1976	109.3	250.3	359.6	0	0.9	55.0	70.0	125.0	6.3	3.2	9.5	60.6	83.7	144.3	0
1977	107.4	272.7	380.1	0	1.4	61.0	77.0	138.0	6.2	2.4	8.6	58.9	87.1	146.0	0
1978	109.8	279.4	389.2	0	3.0	65.0	80.0	145.0	6.0	3.7	9.7	62.4	92.0	154.4	0
1979	114.3	290.4	404.7	0	4.1	68.0	85.0	153.0	5.8	4.2	10.0	60.5	92.2	152.7	0
1980	119.3	278.0	397.3	0	3.5	75.0	95.0	170.0	6.0	4.0	10.0	57.7	74.7	132.4	0

OTHER AFRICA, ASIA & OCEANIA (Continued)															
IRAQ				REPUBLIC OF KOREA			PAKI-STAN	TAIWAN			THAI-LAND	TOTAL OTHER A, A & O			WORLD TOTAL
Y	S	TOT		Y	S	TOT	Y	Y	S	TOT	S	Y	S	TOT	
1975	3.0	5.5	8.5	9.8	0	9.8	2.9	2.7	46.5	49.2	0	132.5	183.4	315.9	1135.6 1823.5 2959.1
1976	3.0	5.5	8.5	14.2	7.1	21.3	2.6	3.1	65.4	68.5	2.0	145.7	236.9	382.6	1187.8 2021.9 3209.7
1977	2.8	5.3	8.1	12.8	9.7	22.5	2.6	3.0	66.6	69.6	10.7	148.7	258.8	407.5	1172.0 2108.9 3280.9
1978	3.0	5.5	8.5	12.7	10.0	22.7	2.3	3.1	66.9	73.0	13.5	157.5	274.6	432.1	1167.0 2151.1 3318.1
1979	2.9	5.4	8.3	13.2	10.4	23.6	2.0	3.0	70.0	73.0	15.1	159.5	282.3	441.8	1176.4 2194.9 3371.3
1980	3.0	5.5	8.5	12.4	15.0	27.4	2.7	3.0	75.3	78.3	16.4	163.3	285.9	449.2	1161.4 2081.0 3242.4

RAYON VS. ACETATE FILAMENT YARN PRODUCTION BY COUNTRY THOUSAND METRIC TONS

THOUSAND METRIC TONS

YEAR	WEST EUROPE																				
	AUS-TRIA		BELGIUM/ NETHERLANDS			FRANCE			WEST GERMANY			ITALY			SPAIN			SWE- DEN	UNITED KINGDOM		
	H	R	H	R	A	H	R	A	H	R+C	A	H	R+C	A	H	R	A	H	H	R	A
1975	7	3	12	17	6	13	12	3	25	21	3	9	18	14	5	9	2	1	19	12	32
1976	11	4	17	17	5	9	13	2	40	24	2	11	18	18	6	8	2	0	19	18	34
1977	9	4	17	14	5	8	13	0	38	24	2	11	15	18	7	6	2	0	17	12	33
1978	8	3	15	15	6	9	10	0	35	23	2	11	11	17	6	5	3	0	15	10	35
1979	8	4	14	15	7	9	9	0	33	23	2	11	9	18	5	5	3	0	11	10	38
1980	11	4	15	16	6	8	9	0	40	24	1	11	5	21	6	4	3	0	1	2	34

YEAR	W. EUROPE (Cont.)										EAST EUROPE										
	OTH- ER ^a		TOTAL WEST EUROPE		BUL- GARIA	CZECHO- SLOVAKIA		GERMAN DEM. REP.		POLAND		ROMANIA		U.S.S.R.		YUGO- SLAVIA		TOTAL EAST EUROPE			
	R	H	R+C	A	R	H	R	H	R	H	R	H	R	H	R+C	A	H	R	H	R+C	A
1975	14	91	106	60	3	9	12	13	20	8	20	10	4	159	75	47	7	8	206	142	47
1976	14	113	116	63	3	9	13	14	22	8	21	7	4	160	77	49	7	8	205	148	49
1977	16	107	104	60	3	10	12	13	23	8	21	6	3	165	80	50	7	8	209	150	50
1978	15	99	92	63	3	10	12	13	21	8	20	6	3	165	80	55	7	8	209	147	55
1979	15	91	90	68	3	10	12	13	22	7	20	6	4	163	80	55	7	9	206	150	55
1980	12	92	76	65	3	9	11	14	23	7	18	6	4	165	85	55	7	8	208	152	55

YEAR	OTHER AMERICAS																					
	U.S.A.			ARGENTINA			BRAZIL			CAN- ADA	CHILE	COLOMBIA		CUBA		MEXICO			PERU		URU- GUAY	VENE- ZUELA
	H	R+C	A	H	R	A	H	R	A	A	R	R	A	H	R	H	R	A	R	A	A	A
1975	21	8	137	1	4	2	13	11	7	13	1	1	3	2	+	3	7	9	1	1	1	3
1976	24	7	130	1	3	1	16	12	6	6	1	0	3	3	+	3	7	10	1	1	1	3
1977	25	7	128	1	3	1	11	12	6	11	1	0	3	2	+	3	7	9	1	1	1	3
1978	21	7	137	1	2	1	8	12	4	12	1	0	4	2	+	3	6	9	+	1	1	3
1979	19	7	143	1	3	1	7	15	3	14	1	0	4	2	+	3	6	8	+	1	1	3
1980	14	7	140	1	1	+	6	16	4	14	1	0	2	2	+	3	6	8	0	2	1	3

YEAR	OTHER AFRICA, ASIA & OCEANIA															TOTAL OTHER A, A & O			WORLD TOTAL		
	TOTAL OTHER AMERICAS			JAPAN			AUS- TRALIA		INDIA			PAKI- STAN	REP. OF KOREA	OTH- ER ^b	TOTAL OTHER A, A & O			WORLD TOTAL			
	H	R	A	H	R+C	A	H	A	H	R	A	A	R	A	R	H	R	A	H	R+C	A
1975	19	25	39	5	74	24	1	2	19	32	2	3	8	2	63	20	103	9	362	458	316
1976	23	24	31	5	75	29	0	0	18	41	2	3	12	2	68	18	121	7	388	491	309
1977	17	24	35	4	74	29	0	0	17	40	2	3	11	2	74	17	125	7	379	484	309
1978	14	21	35	4	78	28	0	0	18	42	2	2	11	2	80	18	133	6	365	478	324
1979	13	25	35	3	80	31	0	0	17	42	2	2	11	2	84	17	137	6	349	489	338
1980	12	24	34	3	84	32	0	0	14	42	2	3	10	2	90	14	142	7	343	485	333

H means high tenacity (tire & industrial type) viscose rayon yarn.
R means regular+intermediate tenacity viscose rayon yarn. **C** means cuprammonium rayon yarn. **A** means acetate+triacetate yarn.

a. "Other West Europe" comprises Finland, Greece, Portugal,

Switzerland and Turkey.

b. "Other Africa, Asia & Oceania" comprises Bangladesh, People's Republic of China, Egypt, Iraq and Taiwan.

1980 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

THOUSAND METRIC TONS

Textile Organon • June 1982

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COUNTRY & AREA	RAYON+ACETATE YARN				RAYON+ACETATE STAPLE				NON-CELLULOSIC YARN				NON-CELLULOSIC STAPLE				TOTAL MAN-MADE FIBERS					
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMPORT	EXPORT	R+A SPUN	N-C SPUN	NET AVAIL
WEST EUROPE																						
AUSTRIA	15.3	3.4	12.5	6.2	100.6	4.6	80.0	25.2	0	25.6	3.6	22.0	25.4	15.8	14.3	26.9	141.3	49.4	110.4	-11.7	-6.2	62.4
BELUX	37.4	13.6	40.9	10.1	22.0	30.4	29.2	23.2	71.9	130.3	107.9	94.3	32.4	99.4	66.7	65.1	163.7	273.7	244.7	+11.1	+23.7	227.5
IRE (IRELAND)	0	0.4	0.3	0.1	0	0.6	0.5	0.1	10.0	19.6	6.2	23.4	31.7	28.0	1.9	57.8	41.7	48.6	8.9	-0.3	+1.5	82.6
FINLAND	0.6	1.3	0.6	1.3	47.2	2.7	44.8	5.1	0.4	11.7	1.0	11.1	0	12.0		12.0	48.2	27.7	46.4	+1.3	+3.7	34.5
FRANCE	16.4	17.9	21.0	13.3	49.6	15.2	6.9	57.9	65.3	81.2	65.5	81.0	126.7	56.2	58.1	124.8	258.0	170.5	151.5	2.3	-1.3	273.4
GERMANY, FED. REP. OF	65.2	27.7	43.1	49.8	46.0	35.6	29.2	52.4	317.7	99.6	256.2	161.1	402.4	90.6	286.0	207.0	831.3	253.5	614.5	+2.2	+9.4	481.9
GREECE	7.2	0.9	3.3	4.8	0	2.7	0.1	2.6	9.0	5.9	1.2	13.7	10.0	23.6	3.4	30.2	26.2	33.1	8.0	0		51.3
ITALY, MALTA	36.6	23.2	12.3	47.5	27.5	29.1	2.6	54.0	124.9	58.0	92.8	90.1	229.9	119.2	126.2	222.9	418.9	229.5	233.9	5.3	-39.5	369.7
NORWAY	0	0.9		0.9	28.4	1.0	23.3	6.1	0	7.1	0.7	6.4	0	4.1		4.1	28.4	13.1	24.0	+0.4	+2.0	19.9
PORTUGAL	2.7	2.0	0.5	4.2	0.7	10.8		11.5	1.4	17.5	2.2	16.7	32.1	14.1	1.5	44.7	36.9	44.4	4.2	-1.5	+8.1	83.7
SPAIN	12.8	1.6	2.6	11.8	40.1	10.4	10.1	40.4	64.9	16.3	8.9	72.3	142.5	53.5	40.4	155.6	260.3	81.8	62.0	2.0	-11.1	267.0
SWEDEN	0	2.7	0.3	2.4	34.9	4.9	31.1	8.7	0.1	18.7	3.1	15.7	0	8.1		8.1	35.0	34.4	34.5	+0.6	+3.5	39.0
SWITZERLAND	1.8	1.7	2.4	1.1	0	8.8		8.8	60.7	8.5	56.1	13.1	23.7	14.7	19.0	19.4	86.2	33.7	77.5	+0.6	-3.7	39.3
TURKEY	0.3	1.3		1.6	5.0	1.7	0	6.7	28.0	11.7		39.7	70.0	10.9	2.6	78.3	103.3	25.6	2.6	0	0	126.3
UNITED KINGDOM	36.7	18.6	34.2	21.1	109.3	33.1	95.7	96.7	125.9	93.1	83.0	136.0	161.7	60.9	125.8	96.8	433.6	205.7	338.7	-3.9	+9.8	306.5
TOTAL WEST EUROPE	233.0	117.2	174.0	176.2	511.3	191.6	353.5	349.4	880.2	604.8	688.4	796.6	1288.5	611.1	745.9	1153.7	2913.0	1524.7	1961.8	-10.8	-0.1	2465.0
U.S.A.	161.3	3.8	18.7	146.4	204.3	4.7	32.2	176.8	1411.6	9.7	190.8	1230.5	1830.5	17.4	332.2	1515.7	3607.7	35.6	573.9	-	-4.5	3064.9
OTHER AMERICAS																						
ARGENTINA	2.0	1.0	0.1	2.9	1.5	0.9	0.7	1.7	21.3	2.4	1.2	22.5	12.9	6.9	0.3	19.5	37.7	11.2	2.3	0	+0.1	46.7
BRAZIL	26.0	2.0	3.8	24.2	25.3	3.1	0.9	27.5	136.4	6.9	0.8	142.5	95.0	7.9	4.5	98.4	282.7	19.9	10.0		+0.1	292.7
CANADA	14.0	7.7	5.8	15.9	30.0	4.2	21.0	13.2	74.0	38.2	11.9	100.3	48.0	36.7	9.0	75.7	166.0	96.8	47.7	+0.2	+5.3	210.6
CHILE	1.0	0.2	0	1.2	3.0	0.3	0	3.3	5.0	1.2	0	6.2	2.5	6.4	0	8.9	11.5	8.1	0	0	+0.1	19.7
COLOMBIA	2.4	0.2	0	2.6	0	2.5	0	2.5	23.0	5.7	0	28.7	10.9	4.3	0	15.2	36.3	12.7	0		+0.1	49.1
COSTA RICA	0	+	0	+	0	0.2	0	0.2	3.0	0.9		3.9	0	1.5	0	1.5	3.0	2.6	0		0	5.6
CUBA	2.2	0.3	0	2.5	3.8	0.4	0	4.2	0	0.9	0	0.9	0	2.0	0	2.0	6.0	3.6	0	+0.1	+2.3	12.0
ECUADOR	0	0.2	0	0.2	0	2.0	0	2.0	3.5	2.7	0	6.2	0	5.6	0	5.6	3.5	10.5	0			14.0
MEXICO	16.8	0.1	0.7	16.2	11.0	4.2	2.8	12.4	137.0	4.6	1.5	140.1	102.4	8.6	0.5	110.5	267.2	17.5	5.5	0	-0.8	278.4
PERU	1.5	0.1	0.1	1.5	0	1.8	0	1.8	10.5	2.5	0	13.0	22.5	5.0		27.5	34.5	9.4	0.1			43.8
URUGUAY	1.3	0.2	0.6	0.9	0	1.7	0	1.7	1.1	0.2		1.3	2.6	1.2	0.2	3.6	5.0	3.3	0.8	0	0	7.5
VENEZUELA	2.8	0.3	0	3.1	0	5.4	0	5.4	11.5	2.0	0	13.5	6.0	2.7	0	8.7	20.3	10.4	0	0		40.7
TOTAL OTHER AMERICAS	70.0	12.3	11.1	71.2	74.6	26.7	25.4	75.9	426.3	68.2	15.4	479.1	302.8	88.8	14.5	377.1	873.7	196.0	66.4	+0.3	+7.2	1010.8
JAPAN	119.3	1.5	42.7	78.1	278.0	0.3	135.3	143.0	625.7	25.1	114.5	536.3	731.1	22.2	243.5	509.8	1754.1	49.1	536.0	-4.5	-39.8	1222.9
AFRICA, ASIA & OCEANIA																						
AUSTRALIA N.Z.	0	2.4		2.4	0	1.6	0.2	1.4	13.0	9.6	0	22.6		16.1	0.2	15.9	13.0	29.7	0.4	+0.9	+8.8	52.0
BANGLADESH	3.5	0	0.1	3.4	0	4.3	0	4.3	0.3	0.7	0	1.0	0	0.1	0	0.1	3.8	5.1	0.1	0		8.8
EGYPT	6.0	0.5	0	6.5	4.0	1.1	0.7	4.4	1.8	5.7	0	7.5	5.0	4.4	0.1	9.3	16.8	11.7	0.8		+0.4	28.1
INDIA	57.7	1.4	1.8	57.3	74.7	40.4		115.1	39.7	12.8	0.3	52.2	30.8	6.7		37.5	202.9	61.3	2.1	0	+0.4	262.5
INDONESIA	0	3.2	0	3.2	0	22.7	0	22.7	41.5	11.7	0.6	52.6	53.9	17.2	0	71.1	95.4	54.8	0.6	+1.9	+4.0	155.5
IRAN	0	4.4	0	4.3	0	36.6	0	36.6	4.5	12.2	0	16.7	0	28.9		28.9	4.5	82.0		+0.4	+11.7	98.6
IRAQ	3.0	0.2		3.9	5.5	0.9	0	6.4	0	7.6	0	7.6	0	4.6	0	4.6	8.5	14.0		+0.5	+4.5	27.5
ISRAEL	0	0.3		0.3	0	0.7	0	0.7	10.5	9.1	4.1	15.5	6.6	3.4	1.2	8.8	17.1	13.5	5.3	+0.2	+0.6	26.1
KOREA, REPUBLIC OF	12.4	6.7	3.4	15.7	15.0	7.9	1.0	21.9	255.2	11.7	17.9	249.0	281.2	13.4	29.5	265.1	563.8	39.7	51.8	-3.8	-56.9	491.0
MALAYSIA	0	0.6		0.6	0	12.3	1.4	10.9	0	12.1	0.1	12.0	36.0	15.1	4.7	46.4	36.0	40.1	6.2	+0.1	-3.5	66.5
NIGERIA	0	1.8	0	1.8	0	1.6	0	1.6	2.5	16.2	1.0	17.7	2.5	1.7	2.2	2.0	5.0	21.3	3.2	+3.3	+10.7	37.1
PAKISTAN	2.7	2.4	0	5.1	0	11.3	0	11.3	1.5	11.9	0	13.4	0	11.2	0	11.2	4.2	36.8	0	0	+0.1	41.1
PHILIPPINES	0	0.4	0	0.4	0	15.0	0	15.0	30.0	3.1	2.1	31.0	14.0	14.6		28.6	44.0	33.1	2.1	+0.7	+1.1	76.8
SOUTH AFRICA	0	5.0		5.0	0	14.4	0.1	14.3	33.5	17.1	0.5	50.1	20.0	30.3		50.3	53.5	66.8	0.6	+0.1	-0.7	119.1
TAIWAN	3.0	1.5	0.9	3.6	75.3	8.8	11.8	72.3	264.6	12.5	111.8	165.3	293.2	37.8	46.2	284.8	636.1	60.6	170.7	-7.1	-45.8	473.1
THAILAND	0	0.8	0.1	0.7	16.4	1.5	0.1	17.8	36.5	1.2	16.4	21.3	49.5	5.6	4.5	50.6	102.4	9.1	21.1	+0.5		90.9
TOTAL A, A & O ABOVE	88.3	32.2	6.3	114.2	190.9	181.1	15.3	356.7	735.1	155.2	154.8	735.5	792.7	211.1	88.6	915.2	1807.0	579.6	265.0	-2.8	-64.1	2054.7
HUNGARY	0	16.0	0.2	15.8	9.0	15.7	4.4	20.3	5.8	10.6	0.4	16.0	13.8	16.1	6.4	23.5	28.6	58.4	11.4	0	+3.4	79.0
POLAND	25.4	2.4	2.1	25.7	61.0	12.2	0.2	73.0	94.5	11.4	5.6	100.3	68.5	38.1	5.9	100.7	249.4	64.1	13.8	+0.4	+4.5	304.6

See text on page 106.

WORLD MAN-MADE FIBER PRODUCERS

ARGENTINA

COAFI S.A.

Polyester Buenos Aires (yarn)

DUCILO S.A.I.C.

Nylon 66 Berazategui & Mercedes *Nylon Ducilo* (yarn)
Spandex Mercedes (fused multifil or coalesced monofil)

FIBRAS INDUSTRIALES S.A.C. e I.

Nylon 6 Quilmes *Caprolan* (yarn & staple)

HISISA ARGENTINA S.A.I.C.I.F.

Acrylic Baradero *Cashmilon* (staple)

MITEXTIL S.A.

Nylon 6 Buenos Aires (yarn)

M. NAHMIA S.A.C.I.

Polyester Buenos Aires (yarn)

NICIEZA y TAVERNA HNOS. S.A.

Nylon 6 Chivilcoy *Grilon* (monofil)

PETROQUIMICA SUDAMERICANA S.A.

Nylon 6 Olmos La Plata (yarn & staple)
Polyester Olmos La Plata *Dicrolene* (yarn & staple)

RHODIA ARGENTINA QUIMICA e TEXTIL

Acetate Quilmes (yarn)
Polyester Quilmes *Tergal* (yarn)

SOCIEDAD NUEVAS INDUSTRIAS ARGENTINAS FIBRAS ARTIFICIALES S.A.I.C.F.I. (SNIIFA)

Nylon 6 Hernández La Plata *Smiloon* (yarn)
Rayon Plátanos (reg yarn & staple)

SUDAMTEX S.A. TEXTIL SUDAMERICANA

Polyester Azul *Acrocel* (staple)

VALENCIANA ARGENTINA S.A.

Nylon 6 Buenos Aires (yarn)

OLEFIN FIBER

MANUFACTURA FORTI ARGENTINA S.A.I.A.F.I. Buenos Aires
(P yarn & staple)

NOTES & DEFINITIONS FOR THIS WORLD DIRECTORY

This directory of producers separates the listing for each country into: (1) the cellulosic plus the non-cellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

• means that the company produces olefin fiber as well as other man-made fiber(s). For example, Brasil Viscose S.A. produces olefin fiber in Brazil as well as nylon and rayon. The nylon and rayon entries for this company are in one section and the olefin entry is shown in the Olefin Fiber section.

* indicates that a new plant, or facilities for producing a new product at an existing plant, is in the planning or construction stage; such facilities are not expected to be operable before 1983 or later. Other product plants are operable today or are expected to be operable during 1982.

The locality shown is the plant site.

Yarn means filament yarn.

Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross-section. Monofilaments for bristles are excluded.

Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split**: fibrillated slit film.

Not included in this survey is the slit film used for decorative or tying ribbon and such.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation.

GENERIC NAMES & TRADEMARKS

The generic fiber names used in this survey are mainly those promulgated by the U.S. Federal Trade Commission (FTC). Following are those generic names (in **bold type**) and a brief description of the fibers covered by each name.

The *italicized* words are trademarks. All other fiber names are generic and are shown in regular type.

TEXTILE GLASS FIBER

A fiber made in two primary forms, namely, continuous strand and staple sliver. Continuous strand is drawn fiber (i.e., from a textile-type bushing), while staple sliver, which is produced in relatively small amounts, is a blown fiber.

Textile glass fiber is produced and sold as filament yarn, strand, roving, mat, chopped strand, milled fiber and staple yarn & sliver. See the complete definition on page 147 of the September 1981 *Organon*.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate. Cellulose acetate. Cigarette filtration tow is excluded.

Triacetate. Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon. Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet

modulus fiber.

Cupra means cuprammonium rayon.

The viscose rayon yarns are identified as ind (industrial or high tenacity yarn) and reg (regular or textile yarn).

NON-CELLULOSIC (SYNTHETIC) FIBERS

Acrylic. At least 85% acrylonitrile by weight.

Modacrylic. 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Azlon. Regenerated natural protein.

Nylon. A long chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc. Where a company produces both type 6 and type 66, the designation 6/66 is used.

Aramid. A long chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings. In this survey, any aramid data are included with nylon.

Olefin. At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.

Polyester. At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.

Saran. At least 80% vinylidene chloride by weight.

Spandex. At least 85% of segmented polyurethane.

Vinal. At least 50% by weight vinyl alcohol and wherein the vinyl alcohol plus acetal units are at least 85% by weight.

Vinyon. At least 85% vinyl chloride by weight.

Other man-made fibers included in this survey, but not listed by the FTC, are **Polycarbonate** (U.S.A.), **Polychlal** (Japan), **Promix** (Japan) and **TFE- & FEP-fluorocarbon** (Fluoro) (Japan, U.S.A. & U.S.S.R.).

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, lastrile, metallic and novoloid. Fibers falling under the FTC designations of anidex and nryl are no longer produced.

International Standard #2076, "Generic Names of Man-Made Fibres," as promulgated by the International Organization for Standardization, lists some 23 names, of which the following are similar to the FTC designations: cupro, viscose, acetate, triacetate, acrylic, modacrylic, nylon or polyamide, polyester and glass. The ISO also lists modal (regenerated cellulose obtained by processes giving a high tenacity and a high wet modulus), alginate (metallic salts of alginic acid), chlorofibre (similar to the FTC's saran and vinyon), elastane (similar to the FTC's spandex), elastodiene, fluorofibre, polycarbamide, polyethylene & polypropylene (similar to the FTC's olefin), polyurethane, triviny and vinylal (similar to the FTC's vinal).

ARGENTINA (Continued)

PANAMERICA DE PLASTICOS S.A.I.C. Olivos (P staple)

TEXTILYUTE S.A.I.C. Isidro Casanova (P film)

VINISA S.A.I.C. Buenos Aires *Rafista, Strofil* (E & P monofil)**TEXTILE GLASS FIBER**

VIDRIERIA ARGENTINA S.A. (VASA)

Llavallol *Texover***AUSTRALIA**

FIBREMAKERS LTD.

Nylon 66 Bayswater, Victoria *Bri Nylon* (yarn & monofil)

Penrith, N.S.W. (tire cord)

Biconstituent Mulgrave, Victoria *Front Runner* (melded fabric)Polyester Bayswater *Terylene* (yarn, staple & tow)

UNITED CARPET MILLS PTY. LTD.

Nylon 6 Thomastown, Victoria *Unilon* (yarn)

Polyester Thomastown (yarn)

In addition to the above, VILENE AUSTRALIA reportedly produces spunbonded products at Minto, N.S.W.; these are believed to be principally based on cellulosic fiber, but some polypropylene may be used.

OLEFIN FIBER

AMOCO FABRICS COMPANY, PATCHOGUE PLYMOUTH DIVISION

Liverpool, N.S.W. *Poly Bac, Propex* (P film)

SARLON INDUSTRIES PTY. LTD. Punchbowl, N.S.W. (E & P monofil & film)

The following companies produce olefin film fiber: A. ABRAHAMS & SONS PTY. LTD., Clayton, Victoria (*Koala, Polytex*); CORDEX INDUSTRIES PTY. LTD., Gladsville, N.S.W.; GEO. KINNEAR & SONS PTY. LTD., Footscray, Victoria (*Emu*); H. J. PENNO, Adelaide, South Australia; and TAPEX PTY. LTD., Sydney, N.S.W.

TEXTILE GLASS FIBER

AUSTRALIAN FIBREGLOSS PTY. LIMITED

Dandenong, Victoria *ACI Fibreglass***AUSTRIA**

AUSTRIA FASERWERKE G.m.b.H.

Polyester Lenzing *Trevira* (staple)

CHEMIEFASER LENZING A.G. •

Fluoro Lenzing (yarn & staple)

Rayon Lenzing (staple)

ENKA AUSTRIA (formerly Erste Österreichische Glanzstoff Fabrik A.G.)

Rayon St. Pölten (ind & reg yarn)

OLEFIN FIBERCHEMIE LINZ A.G. Linz *Asota, Linz PP Multifil, Linz PP Vlies*

(P yarn, staple & spunbonded)

The following companies produce olefin film fiber: CHEMIEFASER LENZING A.G., Lenzing; M. TEUFELBERGER, Wels; and SEITZER, Unter Eggendorf.

BANGLADESH

ASHU-GANJ PETROCHEMICAL COMPLEX

Acrylic Ashuganj* (staple)

KARNAPHULI RAYON AND CHEMICALS LIMITED

Rayon Chandraghona, Chittagong (reg yarn & staple •)

PYLON INDUSTRIES LIMITED

Nylon 6 Fouzdarhat Industrial Estate, Chittagong *Pylon* (yarn)**BELGIUM**

AMCEL EUROPE, S.A.

Acetate Lanaken, Limburg (yarn)

Triacetate Lanaken (yarn)

N.V. BAYER S.A.

Nylon 6 Antwerpen *Dorix* (staple)

BEAU-LIEU-NYLON S.A. •

Nylon 6 Kruishoutem, East Flanders (yarn)

FABELTA NINOVE S.A.

Rayon Ninove, East Flanders (reg yarn)

FABELTA TUBIZE S.A.

Acrylic Tubize, Brabant *Acritel* (staple)

FABELTA ZWIJNAARDE S.A.

Nylon 66 Zwijnaarde, East Flanders *Fabelnyl* (yarn)

Rayon Zwijnaarde (staple)

OLEFIN FIBER

DELOTEX (P staple)

N.V. FIBRILO Zele, East Flanders (P staple & film)

S.A. LA LOKEROISE Lokeren, East Flanders (P staple)

OSTEND STORES & ROPEWORKS S.A. Ostend, West Flanders

POLYFIL N.V. (subsidiary of Beaulieu) Wielsbeke (P yarn)

T.T.C. POLYOLEFINS S.A. Overpelt, Limburg (P monofil)

The following companies produce olefin film fiber: N.V. JONCKVANSTEEN, Passendale; SAPHORIUM, Zele, East Flanders; POLYTEXCO S.P.R.L., Beveren; Kortryk; and S.A. U.C.O., Ledeborg, Gent.

TEXTILE GLASS FIBER

N.V. BAYER S.A.

Antwerpen

OWENS-CORNING FIBERGLAS EUROPE S.A.

Battice, Liège *Fiberglas*

Rayon+acetate production data are combined with the Netherlands on page 110. Non cellulosic production data are combined with the Netherlands and Luxembourg under "Benelux" on page 108.

BOLIVIA

TEXTURBOL TEXTURIZADORA BOLIVIANA

Polyester La Paz (yarn)

BRAZIL

ARTEPESCA • S.A. ARTIGOS DE PESCA DO NORDESTE •

Nylon 6 Igarassu, Pernambuco (monofil)

BANYSA TECELAGEM DO BRASIL S.A.

Nylon 6 Aratú, Bahia *Fio Banysa Nylon* (yarn)Polyester Aratú *Fio Banysa Polyester* (yarn)

BRASIL VISCOSÉ S.A. •

Nylon 6 Jundiapéba, São Paulo *Giorgilon* (staple)

Rayon Jundiapéba (staple)

CELANESE DO BRASIL • FIBRAS QUÍMICAS LTDA.

Nylon 66 São Bernardo do Campo, São Paulo *Celtril, Celtril BCF* (yarn)Polyester São Bernardo do Campo *Fortrel* (yarn),Pocos de Caldas, Minas Gerais *Fortrel* (staple)

CELANESE DO BRASIL NORDESTE S.A.

Polyester Aratú, Bahia *Fortrel* (yarn & staple)

CIA. BRASILEIRA DE SINTÉTICOS

Nylon 6 Osasco, São Paulo (yarn)

Polyester Osasco *Terrira* (yarn)

CIA. NITRO QUÍMICA BRASILEIRA

Rayon São Miguel Paulista, São Paulo (reg yarn)

COBAFI • CIA. BAHIANA DE FIBRAS

Nylon 6 Camaçari, Bahia (yarn)

DE MILLUS S.A. INDÚSTRIA E COMÉRCIO

Nylon 6 Rio de Janeiro, Rio de Janeiro *Demilon* (yarn)

DU PONT S.A. INDÚSTRIAS QUÍMICAS

Spandex Paulínia, São Paulo *Lycra* (fused multifil)

EQUIPESCA • EQUIPAMENTOS DE PESCA S.A.

Nylon 6 Campinas, São Paulo (monofil)

FIAÇÃO BRASILEIRA DE RAYON • FIBRA S.A.

Nylon 6 Americana & São Paulo, São Paulo *Liton* (yarn)

Polyester São Paulo (yarn)

Rayon Americana (reg yarn & staple)

FISIBA • FIBRAS SINTÉTICAS DA BAHIA S.A.

Acrylic Camaçari, Bahia *Triana* (staple)

INDÚSTRIAS MATARAZZO DE FIBRAS SINTÉTICAS S.A.

Nylon 6 São José dos Campos, São Paulo (yarn)

MANAP • MANUFATURA NACIONAL DE PLÁSTICOS •

Nylon 6 Osasco, São Paulo *Cacara* (monofil)

BRAZIL (continued)**MARCATTO S.A. IND. E COM.●**

Nylon 6 Jaraguá do Sul, Santa Catarina (monofil)

MAZZAFERRO POLIMEROS E FIBRAS SINTÉTICAS LTDA.Nylon 6 São Bernardo do Campo, São Paulo *Grilon, Trilon*
(yarn & monofil)**MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS●**

Nylon 6 São Paulo, São Paulo (monofil)

NOVELSPUMA - ESPUMA DE NYLON S.A.

Nylon 6 São Paulo, São Paulo (yarn)

POLYENKA S.A.Polyester Americana, São Paulo *Diolen* (yarn)**POLYNOR S.A. INDÚSTRIA E COMÉRCIO DE FIBRAS SINTÉTICAS DA PARAÍBA**Polyester João Pessoa, Paraíba *Amilon, Polynor* (yarn & staple)**RHODIA S.A.**

Acetate Santo André, São Paulo (yarn)

Acrylic São José dos Campos, São Paulo *Crylor* (staple)Nylon 66 Santo André *Droptyl, Rhodiamyl* (yarn & staple)Polyester Santo André *Droptgal, Tergal* (yarn & staple)São José dos Campos *Bidim* (spunbonded)

Rayon São José dos Campos (ind yarn & staple)

RHODIA NORDESTE S.A.Polyester Cabo, Pernambuco *Droptgal, Tergal* (yarn & staple)**SEARA IND. TÊXTIL LTDA.●**

Nylon 6 Londrina, Paraná (monofil)

SPUMAR S.A. INDÚSTRIA E COMÉRCIO●

Nylon 6 São Paulo, São Paulo (yarn)

OLEFIN FIBER**ARTEPESCA - S.A. ARTIGOS DE PESCA DO NORDESTE** Igarassu,
Pernambuco (E & P monofil)**BRASIL VISCOSE S.A.** Jundiapéba, São Paulo (P staple)**ETRÚRIA S.A. INDÚSTRIA DE FIBRAS E FIOS SINTÉTICOS** Mairinque,
São Paulo (P staple)**FADEMAC - FABRICA DE MATERIAIS DE CONSTR. S.A.** Jacareí, São Paulo
(P staple)**FITESA - FIAÇÃO TÊXTIL DE EMBALAGENS PLÁSTICAS S.A.** Guaíba, Rio
Grande do Sul (P staple) & Porto Alegre, Rio Grande do Sul (P film)**INYLBRA S.A. TAPETES E VELL'DOS** Diadema, São Paulo (P staple)**MANAP - MANUFATURA NACIONAL DE PLÁSTICOS** Osasco, São Paulo
(P monofil)**MARCATTO S.A. IND. E COM.** Jaraguá do Sul, Santa Catarina (E & P monofil)**MONOFIL - CIA. INDUSTRIAL DE MONOFILAMENTOS** São Paulo,
São Paulo (P monofil)**SEARA IND. TÊXTIL LTDA.** Londrina, Paraná (E & P monofil)**SPUMAR S.A. INDÚSTRIA E COMÉRCIO** São Paulo, São Paulo *Fibrilene*,
Polylene, Polyplan, Prolene (P yarn, staple & film)**TAPETELENE - INDÚSTRIA S.A.** Pajuçara, Marambaia, Ceará (P staple)**TINTORIA S.A. - BENEFICIAMENTO DE FIOS** (P yarn)

The following companies produce only olefin film fiber: **BRASMEN TOL CACAPAVA S.A.**, Cacapava, São Paulo; **CACIQUE DE EMBALAGENS S.A. INDÚSTRIA E COMÉRCIO**, Londrina, Paraná; **C.A.T.A. - CIA. AMAZONIA TÊXTIL DE ANIAGEM S.A.**, Belém, Pará; **CIA. FAB. YOLANDA S.A.**, Recife, Pernambuco; **CIA. JAUENSE INDUSTRIAL**, Jau, São Paulo; **CIA. UNIÃO MANUFATORA DE TECIDOS**, Rio de Janeiro, Rio de Janeiro; **DICOPLAST S.A. INDÚSTRIA E COMÉRCIO DE PLÁSTICOS**, Presidente Prudente, São Paulo; **EMPLA - EMBALAGENS PLÁSTICAS S.A.**, Rio de Janeiro, Rio de Janeiro; **FIBRASA IND. E COM. DE FIOS E EMBALAGENS S.A.**, Espírito Santo; **FIBROTEX TECELAGEM DE FIBRAS S.A.**, São Paulo, São Paulo; **IMPLASA - INDÚSTRIA DE PLÁSTICOS ZANIOLO S.A.**, São José dos Pinhais, Paraná; **INDÚSTRIA TÊXTIL TSUZUKI LTDA.**, Suzano, São Paulo; **IPLAC DO BRASIL S.A. PLÁSTICOS INDUSTRIAIS**, Fortaleza, Ceará; **NOVOPLAST IND. E COM. DE PLÁSTICOS**, Nova Odessa, São Paulo; **PLABASA - PLÁSTICOS DA BAHIA S.A.**, Salvador, Bahia; **PLASMINAS - PLÁSTICOS MINAS LTDA.**, Tres Pontas, Minas Gerais; **PLÁSTICOS DO PARANÁ LTDA.**, Londrina, Paraná; **PLÁSTICOS**

LINIL S.A., Recife, Pernambuco; **PLÁSTILIRA INDÚSTRIA DE EMBALAGENS LTDA.**, Campinas, São Paulo; **QUALITAS IND. E COM. LTDA.**, São Paulo, São Paulo; and **SACOPLAST PLANOSA - PLÁSTICOS DO NORDESTE S.A.**, Rio Grande do Norte.

TEXTILE GLASS FIBER**OCFIBRAS**Rio Claro, São Paulo *Fiberglass***BULGARIA****KOMBINAT "DIMITAR DOMOV"●**Acrylic Burgas *Bulania* (staple)Nylon 6 Vidin *Vidolin* (yarn)Polyester Yambol *Yambolen* (yarn, staple & tow)**KOMBINAT "SVOLOSA"**

Rayon Svishtov (reg yarn & staple)

OLEFIN FIBER**KOMBINAT "DIMITAR DOMOV"** Yambol • (P staple)**CANADA****BADISCHE CANADA LIMITED**Nylon 6 Amprior, Ontario *Zefran* (yarn & staple)**CELANESE CANADA INC., FIBRES DIVISION●**

Acetate Drummondville, Quebec (yarn)

CELANESE CANADA (MILLHAVEN) INC. (formerly Millhaven Fibres Ltd.)Polyester Millhaven, Ontario *Fortrel* (yarn, staple, tow & fiberfil)**COURTAULDS (CANADA) LIMITED**

Rayon Cornwall, Ontario (staple)

DU PONT CANADA INC.●Nylon 66 Kingston, Ontario *Antron, Cantrecc, Du Pont*
(yarn, staple & tow)Polyester Kingston, Ontario *Dacron* (yarn)Spandex Maitland *Lycra* (fused multifil)**FIRESTONE TEXTILES CO. - A DIVISION OF FIRESTONE CANADA LTD. LTD.**

Nylon 6 Woodstock, Ontario (yarn & monofil)

MILLHAVEN FIBRES LIMITED See Celanese Canada (Millhaven) Inc.**OLEFIN FIBER****AMOCO FABRICS CO.** Brantford & Hawkesbury, Ontario
(E & P monofil & P film)**CALKO MILLS LTD.** Rivière du Loup, Quebec (P monofil)**CANADA WESTERN CORDAGE CO., LTD.** New Westminster, B.C.
(P monofil)**CELANESE CANADA INC., FIBRES DIVISION** St. Jean, Quebec *Profel*
(P yarn & staple)**DOON TWINES LTD.** Kitchener, Ontario (P yarn, monofil & staple)**DU PONT CANADA INC.** North Bay, Ontario (P film)**GUELPH TWINES LTD.** Guelph, Ontario (P monofil & film)**NOVASTRAND** St. John, New Brunswick (P monofil)**POLI TWINE CORP. LTD.** Belleville, Ontario & Saskatoon, Saskatchewan
Polytte, PolyTwine, Spiralok (P monofil)**SCHLEGEL COMPANY CANADA LTD.** Oakville, Ontario (P monofil)**STRUDEX FIBRES LTD., DIVISION OF KRAUS CARPET MILLS LTD.**
Waterloo, Ontario (P yarn & staple - captive)

The following companies produce olefin film fiber: **FIBERWORLD**, Ltd., Hawkesbury, Ont.; and **POLYMER INTERNATIONAL (N.S.) LTD.**, Truro, N.S.

TEXTILE GLASS FIBER**FIBERGLAS CANADA LIMITED**Guelph, Ontario *Fiberglass***CHILE****GOODYEAR DE CHILE, S.A.I.C.**

Nylon 6 Maipo, Santiago (yarn & monofil)

INDUSTRIAS QUÍMICAS GENERALES S.A.

Rayon Quilota, Valparaíso (ind yarn & staple)

LANERA AUSTRAL S.A.

Polyester Santiago (staple & tops)

MANUFACTURAS SUMAR S.A.Nylon 6 El Pinar 172, Santiago *Criobal* (yarn)Polyester El Pinar 172 *Poligal* (yarn & staple)

CHILE (Continued)**QUÍMICA INDUSTRIAL S.A.**Polyester Maipú, Santiago *Polyeron* (staple & tops)**"RAYONHIL," INDUSTRIA NACIONAL DE RAYON S.A.**

Rayon Lolleo, Santiago (reg yarn & staple)

OLEFIN FIBER

TEJIDOS PLASTICOS INTERPLAST S.A. Santiago, Santiago (P film)

CHINA, PEOPLE'S REPUBLIC OF

Reliable information on locations of man-made fiber plants in the People's Republic of China is not available.

Rayon plants have been reported at Amoy, Antung, Canton, Foshan, Kirin, Nanchang, Nanking, Paoing and Shanghai. However, only the plants at Antung and Shanghai can be confirmed.

Non-cellulosic plants are reported at Canton (vinyon), Chungking (vinyon), Foochow (vinyon), Lanchow (olefin & vinal), Liaoyang (nylon & polyester), Peking (nylon, polyester & vinal), Pingdingshan (nylon), Shanghai (acrylic, polyester & vinyon), Shengli (vinyon), Shenyang (nylon & polyester) and Tientsin (polyester & vinyon). Others have been reported at Chenchiang, Harbin (acrylic), Hsinhsiang, Paoing (nylon), Sian and Sining (vinyon).

The following three plants have been reported as producing textile glass fiber: Shanghai Glass Fiber Plant, Shanghai Tungfanghung Glass Fiber Plant and Tientsin Glass Fiber Plant.

COLOMBIA**CELANESE COLOMBIANA, S.A.**

Acetate Yumbo, near Cali, Valle del Cauca (yarn)

Nylon 6 Sabaneta, Antioquia *Nylocel* (yarn)Polyester Yumbo *Fortrel* (yarn & staple)**COLTEFIBRAS S.A.**

Polyester Igatui, Antioquia* (yarn & staple)

ENKA DE COLOMBIA S.A.Nylon 6 Girardota, Antioquia *Enkalon* (yarn)Polyester Girardota *Terlenka* (yarn & staple)**FABRICA DE HILAZAS VANYLON S.A.**Nylon 6 Barranquilla, Atlántico *Vanylon* (yarn & monofil)**POLIMEROS COLOMBIANOS S.A.**Polyester Medellín, Antioquia *Primel* (yarn, staple, tow & tops)**ZYLETTE (LAFAYETTE)**

Polyester Bogotá (yarn)

The following companies produce olefin film fiber: COMPANIA NACIONAL DE EMPAQUES S.A., Medellín; PLASTICOS DE MAGDELENA LTDA., Santa Marta; and POLYMER DE COLOMBIA S.A., Cartagena.

TEXTILE GLASS FIBER**OWENS CORNING FIBERGLAS COLOMBIA, S.A.**Bogotá *Fiberglas***COSTA RICA****OLYMPIC FIBERS, S.A.**

Polyester San Antonio de Belén (yarn)

CUBA**INDUSTRIAS CONSOLIDADAS DE MATANZAS, S.A.**

Rayon Matanzas (ind & reg yarn & staple)

CYPRUS**OLEFIN FIBER**

LORDOS POLYSAC (LIMASSOL) LIMITED Limassol (P film)

CZECHOSLOVAKIA**CHEMICKÉ ZÁVODY J. RÁJA DIMITROVA, N.P.***

(GEORGE DIMITROV CHEMICAL WORKS, NATIONAL CORP.)

Rayon Bratislava, Slovakia (reg yarn & staple)

CHEMLON, N.P. (CHEMLON, NATIONAL CORPORATION)Nylon 6 Humenné, Slovakia *Chemlon* (yarn)**CHEMOSVIT, N.P. (CHEMOSVIT, NATIONAL CORPORATION)***Nylon 6 Svit, Slovakia *Sviton*, *Svitontex* (yarn & staple)

Rayon Svit (reg yarn)

SEVEROČESKÉ CHEMICKÉ ZÁVODY, N.P.

(NORTH BOHEMIAN CHEMICAL WORKS, NATIONAL CORP.)

Rayon Lovosice, Bohemia (ind yarn)

SILON, N.P. (SILON, NATIONAL CORPORATION)Nylon 6 Planá nad Lužnicí, Bohemia *Silon* (yarn & monofil)Polyester Planá nad Lužnicí *Tesla, Teryro, Velana* (staple, tow & fiberfill)**SLOVENSKÝ HODVÁB, N.P.**

(SLOVAKIAN FILAMENT YARN, NATIONAL CORPORATION)

Polyester Senica nad Myjavou, Slovakia *Slotera* (yarn)

Rayon Senica nad Myjavou (reg yarn)

SPOLANA, N.P. (SPOLANA, NATIONAL CORPORATION)

Rayon Neratovice, Bohemia (staple)

OLEFIN FIBER**CHEMICKÉ ZÁVODY J. RÁJA DIMITROVA, N.P.** Bratislava *Istrona, Labren, Nobelox* (P yarn & staple)**CHEMOSVIT, N.P.** Svit *Proden, Textzol* (P yarn & spunbonded)**JUTA, N.P.** Úpice, Bohemia (P spunbonded)

The following companies produce olefin film fiber: JUTA, N.P., Adamov, Moravia and Bernartice u Trutnova, Dvůr Králové, Jilemnice & Úpice, Bohemia; POVAŽSKÉ CHEMICKÉ ZÁVODY, N.P., Žilina, Slovakia; and TECHNOLÉN, N.P., Lomnice nad Popelkou, Bohemia.

TEXTILE GLASS FIBER**SKLOPLAST, N.P. (SKLOPLAST, NATIONAL CORPORATION)**

Trnava, Slovakia (yarn, chopped strand & mat)

VERTEX, N.P. (VERTEX, NATIONAL CORPORATION)

Litomyšl, Bohemia (yarn, roving, mat & staple yarn)

DENMARK**OLEFIN FIBER****A. S. FIBERTEX** Aalborg (P staple)**ESBJERG TOVVAERKSFABRIK A. S.** Esbjerg *Westflex*

(E & P monofil & film; P staple)

JACOB HOLM VARDE A. S. Varde *Danaklon, HHS* (E & P staple & film)*Krenit* (P reinforcing fiber)**R.F.W. PLAST INDUSTRI A. S.** Vejle (P film)**ROBLON A. S.** Frederikshavn (P film)**ECUADOR****ECUATORIANA DE TEJIDOS DE PUNTA**

Polyester Punta (yarn)

ENKADOR S.A.

Polyester Sangolqui, Pichincha (yarn)

FIBRATEX S.A.

Polyester Guayaquil, Guayas (yarn)

EGYPT**ESTABLISSEMENTS INDUSTRIELS POUR LA SOIE ET LE COTON S.A.A.**

Rayon Cairo (reg yarn) (E.S.C.O.)

MISR AL AMIRIYA INDUSTRIAL FIBRE CO.

Polyester Aminya (yarn & staple)

SOCIETE MISR POUR LA RAYONNE S.A.A. (MISR RAYON CO.)Nylon 6 Kafr el Dawar *Misrnylon* (yarn), *Misrnylon* (staple)Polyester Kafr el Dawar *Polymisr* (yarn)

Rayon Kafr el Dawar (reg yarn & staple)

EL SALVADOR**OLEFIN FIBER****FILAMENTOS Y PERFILES, S.A. (FILPERSA)** San Salvador *Duraplen* (E & P monofil)**SALVAPLASTIC, S.A.** San Salvador (P monofil)**FINLAND****KEMIRA OY SATERI**

Rayon Valkeakoski (staple)

LAPPFIBER OY

Nylon 66 Tornio (yarn)

OLEFIN FIBER

The following companies produce olefin film fiber: MANILLA OY, Turku and PIIPPO OY, Lempäälä.

FINLAND (Continued)**TEXTILE GLASS FIBER****A. AHLSTROM OY GLASSFIBRE**

Karhula *Kuttiilast* (roving & mat)

FRANCE

CELLATEX (a subsidiary of Rhône Poulenc Textile)

Rayon Givet, Ardennes & Grenoble, Isère (ind & reg yarn & staple)

COURTAULDS S.A.

Acrylic Pont du Leu, Coquelles, Pas de Calais *Courtelle* (staple)

Rayon Pont du Leu (staple)

MONTEFIBRE FRANCE S.A.

Nylon 6 St Nabord, Vosges *Montefibre* (yarn)

Polyester St Nabord *Montefibre* (yarn)

ETS. NYSAM

Nylon 6 St Quentin, Aisne *Lilion* (yarn)

RHONE POULENC FIBERS (a subsidiary of Rhône Poulenc Textile)

Acrylic Colmar, Haut Rhin *Crylor* (staple)

Nylon 66 Albi, Tarn, Givet, Ardennes, St Laurent Blangy, Pas de Calais & Valence (Drôme) *Nylfrance* (yarn & staple)

Polyester Bezons, Val d'Oise; Gauchy, Aisne & Valence *Tergal* (yarn & staple), *Bidim* (spunbonded)

RHOVYL (a subsidiary of Rhône Poulenc Textile)

Vinyon Tronville en Barrois, Meuse *Cléryl, Rbovyl, Thermovyl* (yarn & staple)

SOCIETE CHOMARAT

Nylon 6 Mariac (yarn captive)

OLEFIN FIBER

PLASTIQUE DE ROUBAIX Roubaix (P film & staple)

SODOCA FABRICATION DE NONTISSES SYNTHETIQUES S.A.R.L.

Neuf Brisach, Haut Rhin (P spunbonded)

The following companies produce olefin film fiber: ETS. AMMANN & CIE., Saint Louis, ETS. BATAILLE, Rosendaël, BIHR FRERES S.A., Xertigny, BOUSSAC SAINT FRERES S.A., Flixecourt, and SEINE & LYS, Paris.

TEXTILE GLASS FIBER**OWENS CORNING FIBERGLAS FRANCE**

L'Ardoise, Gard *Fiberglas*

SAINT GOBAIN INDUSTRIES, DIVISION VERRE TEXTILE

Chambéry, Savoie *Silicone, Stratifil, Stratimat, Verrane*

GERMAN DEMOCRATIC REPUBLIC**DEUTSCHE DEMOKRATISCHE REPUBLIK (EASTERN)**

(Those facilities indicated by * are part of the trust VEB Chemiefaserkombinat Schwarz a "Wilhelm Pieck")

VEB CHEMIEFASERKOMBINAT SCHWARZA "WILHELM PIECK"

Nylon 6 Schwarza, Krs. Rudolstadt *Dederon* (yarn)

Rayon Schwarza (staple)

CHEMIEFASERWERK "FRIEDRICH ENGELS"*

Acrylic Premnitz, Krs. Rathenow *Wolpnyla* (staple)

Nylon 6 Premnitz *Dederon* (staple)

Polyester Premnitz *Grisuten* (staple)

Rayon Premnitz (reg yarn)

CHEMIEFASERWERK "WILHELM PIECK-STADT" GUBEN*

Nylon 6 Guben *Dederon* (yarn & monofil)

Polyester Guben *Grisuten* (yarn)

KUNSTSEIDENWERK "CLARA ZETKIN," ELSTERBERG*

Rayon Elsterberg, Krs. Greiz (reg yarn)

SÄCHSISCHES KUNSTSEIDENWERK "SIEGFRIED RÄDEL"*

Polyester Pirmas (yarn)

Rayon Pirmas (ind, reg & cupra yarn)

SÄCHSISCHE ZELLWOLLE*

Rayon Plauen (staple)

SPINNSTOFFWERK "OTTO BUCHWITZ"*

Rayon Glauchau (staple)

ZELLSTOFF- UND ZELLWOLLWERKE WITTENBERGE*

Rayon Wittenberge (staple)

VEB FILMFABRIK FOTO-CHEMISCHES KOMBINAT

Acrylic Wolfen, Krs. Bitterfeld *Wolpnyla* (staple)

Rayon Wolfen (ind yarn & staple)

Vinyon Wolfen *Puracid* (staple)

TEXTILE GLASS FIBER**VEB GLASSEIDENWERK**

Oschatz *Glasseidengewebe, Glasseiden Roving, Glasseiden Stapelbinder-matten, Glasseiden Twist, Glasseiden Zwirn, Roving Gewebe*

GERMANY, FEDERAL REPUBLIC OF**BUNDESREPUBLIK DEUTSCHLAND (WESTERN)****BAYER A.G.**

Acrylic Dormagen *Bayer Textilfaser Dralon* (yarn & staple)

Nylon 6 Dormagen *Perlon Drabt* (monofil)

Spandex Dormagen *Bayer Textilfaser Dorlastan* (fused multifil)

BOLTA WERKE G.m.b.H.

Saran Nürnberg *Bolta* (monofil)

DU PONT DE NEMOURS (DEUTSCHLAND)

Nylon 66 Uentrop, Kreis Unna (yarn & staple)

Polyester Uentrop *Dacron* (staple, tow & fiberfill)

ENKA A.G.

Nylon 6 66 Kassel & Obernburg *Enka Nylon* (yarn)

Enka Perlon (yarn & staple)

Polyester Kassel, Oberbruch & Obernburg *Diolen* (yarn & staple)

Rayon Kelsterbach, Oberbruch & Obernburg (ind & reg yarn)

E. HAHL KG*

Nylon 6 Munderkingen (staple)

HOECHST A.G.

Acrylic Kelheim Donau *Dolan* (staple)

Polyester Bad Hersfeld, Hessen & Bobingen Augsburg land *Trevira* (yarn, staple & spunbonded), *Trevira Drabt* (monofil)

Rayon Kelheim Donau (staple)

ICI (EUROPA) FIBRES G.m.b.H.

Nylon 66 Ostringen *Timbrelle* (yarn & staple)

Polyester Ostringen *Terylene* (yarn)

LU TRAVIL SPINNVLIES*

Nylon 6 Kaiserslautern *Lutrabond* (spunbonded)

Polyester Kaiserslautern *Lutradur* (spunbonded)

MONSANTO (DEUTSCHLAND) G.m.b.H.

Acrylic Lingen *Acrlan* (staple)

NORDDEUTSCHE FASERWERKE G.m.b.H.

Nylon 6 66 Neumünster *Siks Perlon* (yarn & staple)

Polyester Neumünster *artron* (yarn)

PHOENIX GUMMIWERK A.G.

Saran Hamburg Harburg *Harlan* (monofil)

HEINRICH REINHOLD KG*

Nylon 6 Selbitz, Bayern (staple)

RHODIA A.G.

Acetate Freiburg Br. (tow)

Nylon 66 Freiburg Br. & Rottweil a. N. Württ.

Rbova fil Nylon, Rbova spun, Rbova tex Helanca (yarn & staple)

Polyester Freiburg Br. *Rbova fil Tergal, Rbova tex Tergal* (yarn)

SPINNSTOFFFABRIK ZEHLENDORF A.G.

Polyester Berlin Zehlendorf *Trevira* (yarn & staple)

TEXTILWERKE DEGGENDORF

Nylon 66 Deggen-dorf (yarn)

Polyester Deggen-dorf (yarn)

WACKER-CHEMIE G.m.b.H.

Vinal München Burghausen *Wacker-MIP Faser* (staple)

OLEFIN FIBER

J. F. ADOLFF A.G. Backnang (P film & staple)

AMOCO FABRICS CO., DIVISION OF AMOCO (DEUTSCHLAND) G.m.b.H. Gronau (P film & staple)

J. H. BENECKE G.m.b.H. Peine *Convin* (P spunbonded & staple)

R. B. J. RUDOLF BILLERMANN KG Emsdetten (P yarn & staple)

CHEMISCHE WERKE HÜLS A.G. Marl, Kreis Recklinghausen, Westphalia *Vestolan* (E & P monofil)

GERMANY, FEDERAL REPUBLIC OF (Continued)

DYNAMIT NOBEL A.G. Troisdorf, Bez. Köln *Trofil* (E & P monofil & tow)
 FASERWERKE BOTTROP G.m.b.H. Bottrop (P staple)
 FÜSSENER TEXTIL A.G. Füssen (P film & staple)
 GEO. GLEISTEIN & SOHN Bremen Vegesack (P film & monofil)
 E. HAHN KG Munderkingen (P monofil & staple)
 RUDOLF HILLER KG (P monofil)
 LUTRAVIL SPINNVLIES Kaiserslautern *Lucrasil* (P spunbonded)
 PIELMANN (P staple)
 HEINRICH REINHOLD KG Selbitz Bayern (P staple)
 SCHAEFFLER
 STEEN Hamburg (P staple)
 WESTFALLA SPINNEREI U. KUNSTOFFWERK SCHEM KG Minden
 (P monofil & film)

The following companies produce olefin film fiber: BAUMHÜTER G.m.b.H., Wiedenbrück; BREMER WOLLKAMMER, Bremen Blumenthal; ERNST JAEGER, Düsseldorf Reisholz; HEINZ G. JUNEMANN (NORDHESSISCHE HAARWARENFABRIK), Felsberg; KUSGA KUNSTOFFGARNE G.m.b.H., Mainz; POLYDRESS PLASTIC G.m.b.H., Michelstadt; POLYUNION KUNSTOFFWERK, Mesum; J. SCHILGEN, Emsdetten; SPOHN G.m.b.H., Freiburg; B.T.F. TECKLENBORG & CO., Bremen Grohn; and DR. KARL WETEKAM & CO., Melsungen.

TEXTILE GLASS FIBER

GEVETEX TEXTILGLAS G.m.b.H.
 Aachen & Dortmund Mengede *Gervetex*
 SCHÜLLER GLASWERKE
 Westheim

GREECE

ETMA S.A.
 Nylon 6 66 Athens (yarn)
 Rayon Athens (reg yarn)
 POLYETMA LTD.
 Polyester Athens (yarn)
 VOMVICRYL S.A. (affiliate of "Vomvix" S.A.)
 Acrylic Stylys, near Lamia (staple, tow & tops)
 "VOMVIX" S.A.
 Nylon 6 66 Athens (yarn)
 Polyester Athens (yarn)

OLEFIN FIBER

VIOFARM Argos (P staple)

The following companies produce olefin film fiber: ARIPLAST S.A., Athens; BIOSISAL, Athens; DESSILA, Piraeus; ELVISA, Athens; MARINE ROPE, Athens; OLYMPIC ROPES, Piraeus; SISAL ROPERY, Salonika; C. VELLIS HEIRS S.A., Piraeus; and VESY S.A. SYNTHETIC MATERIALS INDUSTRY, Piraeus.

GUATEMALA

HILOS SINTÉTICOS CENTROAMERICANOS, S.A.
 Nylon 6 San José Pinula, Guatemala (yarn) (idle)

OLEFIN FIBER

CORDELERIA LA RAPIDA Guatemala, Guatemala (P monofil)

HONDURAS**OLEFIN FIBER**

POLYMER, (subsidiary of United Brands) San Pedro Sula (P film)

HUNGARY

MAGYAR VISCOSAGYÁR (Hungarian Viscose Factory)*
 Acrylic Nyergesújfalu *Crumeron* (staple)
 Nylon 6 Nyergesújfalu *Danamid* (yarn & staple)
 Rayon Nyergesújfalu (staple)

OLEFIN FIBER

KENDER JUTA TEXTILIPARI V. Budapest (P film)

KENDERFONÓ ÉS SZÖVŐIPARI V. SZEGED Szeged (P film)

MAGYAR VISCOSAGYÁR Nyergesújfalu *Popri* (P staple)

SOPRONI SZÖNYEGGYÁR Sopron *Soplen* (P yarn)

TISZA CHEMICAL COMBINE Lenin Város (P staple)

INDIA

THE AHMEDABAD MFG. & CALICO PRINTING CO. LTD.,
 CALICO POLYESTER FIBRE DIV.

Polyester Baroda, Gujarat *Ilacron* (staple)

ANDHRA PRADESH RAYONS LTD.

Rayon Kamalapuram, Warangal District, Andhra Pradesh* (staple)

THE BARODA RAYON CORPORATION LIMITED

Nylon 6 Udhna, Gujarat *Sualon* (yarn)

Polyester Udhna *Sualter* (yarn)

Rayon Udhna (reg yarn)

BONGAIGAON REFINERY AND PETROCHEMICALS LTD.

Polyester Goalpara, Assam* (staple)

CENTURY ENKA LIMITED

Nylon 6 Bhosari, Pune, Maharashtra *Enkalon* (yarn)

Polyester Bhosari (yarn)

CENTURY RAYON (Prop: The Century Spg. & Mfg. Co. Ltd.)

Rayon Kalyan, near Bombay, Maharashtra (ind & reg yarn)

CHEMICALS & FIBRES OF INDIA LIMITED

Polyester Thane, near Bombay, Maharashtra *Terene* (staple)

DOSHI SYNTHETICS

Polyester Kandla, Gujarat* (yarn)

GARWARE NYLONS LIMITED

Nylon 6 Pimpri, Pune, Maharashtra *Garware* (yarn & monofil)

Polyester Pimpri (yarn)

THE GWALIOR RAYON SILK MFG. (WVG.) CO. LIMITED

Rayon Birlagram, Nagda, Madhya Pradesh & Birlakootam, Mavoor, Kerala (staple)

INDIAN ORGANIC CHEMICALS LIMITED

Polyester Manali, Madras, Tamil Nadu *Futura* (staple)

INDIAN PETROCHEMICALS CORP. LTD.

Acrylic Vadodara, Gujarat *Cashmulon* (staple)

THE INDIAN RAYON CORPORATION LIMITED

Rayon Veraval, Gujarat (reg yarn)

INDUSTRIAL PROMOTION & INVESTMENT CORPORATION OF ORISSA LTD.

Polyester Orissa* (staple)

J. K. RAYON, J. K. PURI

Rayon Kanpur, Uttar Pradesh (reg yarn)

J. K. SYNTHETICS LIMITED

Acrylic Kota, Rajasthan *Jekrlon* (staple)

Nylon 6 Kota *Jayanka, Jaycord, Jaykalon* (yarn & monofil; staple - idle)

Polyester Kota *Jaykylene* (yarn & staple)

JAGTIJIT COTTON TEXTILE MILLS LTD.

Nylon 6 Hoshiarpur, Punjab (yarn)

KARNATAKA STATE INDUSTRIAL INVESTMENT AND DEVELOPMENT
 CORP. LTD.

Polyester (staple*)

KESORAM RAYON (Prop: Kesoram Industries and Cotton Mills Ltd.)

Rayon Nayasarai, Hooghly, West Bengal (reg yarn)

M.P. INDUSTRIAL CORP. LTD.

Polyester Madhya Pradesh* (staple)

MADURA COATS LTD.

Nylon 6 Medak, Andhra Pradesh* (yarn)

MODIPON LIMITED

Nylon 6 Modinagar, Uttar Pradesh *Modipon* (yarn)

Polyester Modinagar (yarn)

THE NATIONAL RAYON CORPORATION LIMITED

Nylon 6 Mohone Kalyan, near Bombay, Maharashtra *N.R.C.* (yarn)

Rayon Mohone Kalyan (ind & reg yarn)

NIRLON SYNTHETIC FIBRES & CHEMICALS LIMITED

Nylon 6 Bombay, Maharashtra *Nircord, Nirlon* (yarn & monofil)

Polyester Bombay *Nirester* (yarn)

ORKAY SILK MILLS PVT. LTD.

Polyester Patalganga, Maharashtra (yarn)

INDIA (Continued)**P.O. PETROCHEMICALS**

Acrylic Vadodara, Gujarat* (staple)
Polyester Baroda, Gujarat* (staple)

PETROFILS COOPERATIVE LIMITED

Polyester Jawaharnagar, Baroda, Gujarat (yarn)

PRADESHIYA INDUSTRIAL & INVESTMENT CORP. OF UTTAR PRADESH

Polyester Uttar Pradesh* (staple)

PUNJAB STATE INDUSTRIAL DEVELOPMENT CORPORATION

Polyester Punjab* (staple)

RELANCE TEXTILE INDUSTRIES

Polyester Patalganga, Maharashtra (yarn)

SHREE SYNTHETICS LIMITED

Nylon 6 Naulakhi, Ujjain, Madhya Pradesh *Shreedon* (yarn)
Polyester Naulakhi *Shroester* (yarn)

SHREERAM FIBRES

Nylon 6 Manali, Madras, Tamil Nadu (yarn)

SHRIRAM FIBRES LIMITED

Nylon 6 Manali, Madras, Tamil Nadu *Tufcord* (yarn)

SHRIRAM RAYONS

Rayon Kota, Rajasthan (ind yarn)

THE SIRSILK LIMITED

Acetate Sirpur Kaghaznagar, Andhra Pradesh (yarn & staple)

SOUTH INDIA VISCOSE LIMITED

Rayon Sirumughai, near Mettupalayam, Tamil Nadu (reg yarn & staple)

STRETCH FIBRES (INDIA) LIMITED

Nylon 6 Nagpur, Maharashtra *SF* (yarn)

SWADESHI POLYTEX LIMITED

Polyester Gaziabad, Uttar Pradesh *Jaitene* (staple)

TAMIL NADU INDUSTRIAL DEVELOPMENT CORP.

Polyester Madras, Tamil Nadu* (staple)
Rayon Madras* (staple)

THE TRAVANCORE RAYONS LIMITED

Rayon Rayonpuram, Kerala (reg yarn)

TUNGABADRA RAYON LIMITED

Rayon Tungabadra, Andhra Pradesh (staple)

OLEFIN FIBER

ACME INVESTMENTS LTD. Panki Industrial Area, Kanpur* (P yarn)

ANIL KUMAR JAIN Ankleshwar, Gujarat* (P yarn)

GUPTA NEEDLE INDUSTRIES PVT. LTD. Dharuhera, Haryana* (P yarn)

INDO SYNTHETICS CORP. (P yarn*)

J.K. BHAGAT Bhiwand, Alwar, Rajasthan* (P yarn)

KALYANI ASBESTOS CEMENT PVT. LTD. Kalol, Gujarat* (P yarn)

NEOMER LIMITED Baroda, Panchmahal, Gujarat *Propion* (P staple)

POLYPROP INDUSTRIES Dharuhera, Haryana* (P yarn)

RAJENDRA V. PATEL Cambay, Gujarat* (P yarn)

SANJEEV SHRIYA Uttar Pradesh* (P yarn)

TEXTILE GLASS FIBER**FIBREGLOSS PILKINGTON LIMITED**

Thane, near Bombay, Maharashtra

U. P. TWIGA FIBREGLOSS

Sikandarabad, Uttar Pradesh

INDONESIA**INDO BHARAT RAYON**

Rayon Desa Cilangkap, Purwakarta (staple)

INDONESIA PENELITIAN SELULOSA (Cellulose Research Institute)

Rayon Bandung (pilot plant) (ind & reg yarn & staple)

KUMA FIBER (P.T. Kuraray Manunggal Fibre Industries)

Polyester Cikokol, Tangerang, West Java (staple)

P. T. INDONESIA ASAHI CHEMICAL

Nylon 6 Jatiluhur, Purwakarta, West Java (yarn)

P. T. INDONESIA TORAY SYNTHETICS

Nylon 6 Tangerang, West Java (yarn)

Polyester Tangerang (staple)

P. T. SHINTA INDAH DJAYA

Nylon 6 Tangerang, West Java (yarn)

Polyester Shinta (yarn)

P. T. SOUTH PACIFIC VISCOSE

Rayon Purwakarta, West Java (staple)

P. T. SUSILA INDAH SYNTHETIC FIBRES INDUSTRIES

Polyester Tangerang, West Java (yarn)

P. T. TAMAN

Polyester Kaliwungu Kendal (yarn)

P. T. THICO (P. T. Teijin Indonesia Fiber Corp.)

Polyester Tangerang, West Java (yarn & staple)

P. T. TRI REMPOA SOLO SYNTHETIC

Polyester Rempon, Tangerang, West Java (staple)

P. T. YASINTA

Polyester Tangerang, West Java (yarn)

IRAN**PARSYLON CORPORATION**

Nylon 6 Khoram Abad* (yarn)

POLYACRYL IRAN CORPORATION

Acrylic Isfahan (staple)

Polyester Isfahan (yarn & staple)

SHERKAT SAHAMI ALIAF

Nylon 6 Tehran *Aliaf* (yarn)

OLEFIN FIBER

JAHANCITT SPINNING & WEAVING CO. Tehran (P film)

IRAQ**HINDIYA RAYON FACTORY**

Rayon Hindiya (reg yarn & staple)

IRELAND, REPUBLIC OF (EIRE)**ASAHI SYNTHETIC FIBRES (IRELAND) LTD.**

Acrylic Ballina, Mayo *Cashmilon* (staple)

LIRELLE (IRELAND) LTD.

Polyester Letterkenny, Donegal *Lirelle* (yarn)

SNIA IRELAND LIMITED

Nylon 6 Hazelwood, Sligo *Lilion* (yarn)

WELLMAN INTERNATIONAL LTD.

Nylon 6 & 66 Mullagh, Kells, Meath *Wellton* (staple)

Polyester Mullagh *Filtwell, Wellene* (staple)

OLEFIN FIBER

F. DRAKE (IRELAND) LTD. Moate, Westmeath (P staple)

J. & L. F. GOODBODY (SYNTHETICS) LTD. Clara, Offaly (P yarn & film)

The following companies produce olefin film fiber: IRISH POLYSACKS LTD., Blarney, Cork; IRISH ROPES LTD., Newbridge, Kildare; and POLYTEX LTD.

ISRAEL**ISRAEL CHEMICAL FIBRES LIMITED**

Acrylic Ashdod *Acrilan* (staple & tow)

NILIT

Nylon 66 Migdal Ha Emek (yarn)

Polyester Migdal Ha Emek (yarn)

ITALY**ANICFIBRE S.p.A.**

Acrylic Ottana & Porto Torres, Sardegna & Pisticci, Lucania *Euroacril* (staple & tow)

Nylon 6 Pisticci *Nuron* (yarn & staple)

Polyester Ottana & Pisticci *Fidion* (yarn, staple & tow)

Polyesteramide Pisticci (pilot plant) (yarn & staple)

AQUAFIL S.p.A.

Nylon 6 Arco di Trento, Trentino *Aqualon* (yarn)

Polyester Arco di Trento (yarn)

ITALY (Continued)**BEMBERG S.p.A.**

Nylon 6 Gozzano, Piemonte *Oritalon* (yarn)
 Rayon Gozzano (cupra yarn)

CALZIFICIO MALERBA

Nylon 66 Varese, Lombardia (yarn)

CARPEFIN S.p.A. (affiliate of Anicofibre)

Nylon 6 Forlì, Emilia Romagna (yarn)

FIBRA DEL SUD S.p.A. - See Montefibre**FILATURA DI VAL LESINA S.p.A.**

Polyester Andalo Valtellino, Lombardia *Valena* (yarn)

FORTEX SIDAC S.p.A.

Nylon 6 Forlì, Emilia Romagna *Forlon* (yarn)

FRATELLI FRANCHI S.p.A.

Nylon 6 Canapale, Toscana *Frankilon* (yarn)

Polyester Canapale *Frankilene* (yarn)

MANIFATTURA TESSILE MIROGLIO

Polyester Alba, Piemonte (yarn)

MEMOFIL

Nylon 6 Potenza, Basilicata (yarn)

MONTEFIBRE S.p.A. • (See Merak) (includes former Fibra Del Sud facility)

Acetate Châtillon, Valle d'Aosta & Vercelli, Piemonte (yarn)

Acrylic Porto Marghera, Veneto *Leacril* (staple & tow)

Nylon 6 Ivrea, Piemonte *Helion* (yarn)

Nylon 66 Pallanza, Piemonte *Nailon* (yarn)

Polyester Acerra, Campania *Territal* (yarn, staple & tow)

Rayon Châtillon (reg yarn)

NOVACETA S.p.A.

Acetate Magenta, Lombardia (yarn)

RADICI FIL S.p.A. •

Nylon 6 Casnigo, Lombardia *Radital* (yarn & staple)

SETTE STELLE

Nylon 6 Castelfelfredo, Lombardia (yarn)

SNIA FIBRE S.p.A.

Acrylic Cesano Maderno, Lombardia & Villacidro, Sardegna *Velicren* (staple & tow)

Nylon 6 Castellaccio, Lazio; Cesano Maderno, Varedo, Lombardia; & Villacidro *Lilton* (yarn, staple & tow), Padova, Veneto; *Lilionette*, *Liliontex* (spunbonded)

Polyester Cesano Maderno; Napoli, Campania; & Varedo *Wistef* (yarn, staple & tow)

Rayon Rieti, Lazio (reg yarn); Varedo (staple)

SOCIETÀ INDUSTRIALE CREMONESE S.p.A.

Rayon Pizzighettone, Lombardia (ind yarn)

TORCITURA DI BORGOMANERO S.p.A.

Nylon 6 Milano, Lombardia *Borgolon* (yarn)

OLEFIN FIBER

EU'ROFIL Gandino, Lombardia (P staple)

FILATURA I DELEBIO S.p.A. Delebio, Lombardia *Deleblon* (P yarn)

FILLI FRANA Casnigo, Lombardia (P staple & film)

I.T.S. Legnano, Lombardia (P yarn)

MERAK S.p.A. (part of Montefibre group) Terni, Umbria *Meraklon* (P staple)

NEOFIL S.p.A. Milano (P yarn)

NU'OVO SAR Caronno Pertusella, Lombardia (P yarn & staple)

POLYMACON Zibido S. Giacomo, Lombardia (P staple & film)

RADICI FIL S.p.A. Casnigo, Lombardia (P staple & film)

SERTEL Casnigo, Lombardia (P staple & film)

SINTOFIL Como, Lombardia (P monofil)

The following companies produce olefin film fiber: CARPET BACKING S.p.A., Cerniga; I.T.P.; LICANA SORD S.p.A., Cassano d'Adda (Milano); DE MAGISTRIS EMILIO, Bagnolo Cremasco; MILANPLAST S.r.l., Milano; MOPLEFAN S.p.A., Milano; NEOFIBRE S.r.l., Lecco; SACHIM (MUMMOLO), Bari; S.E.A.L. S.p.A., Milano; S.I.S.A.L. S.p.A., Piacenza; STIROSIR S.p.A., Milano; and TESSITURA LOMBARDA DI CONSONNI ELIA ALBIATE.

TEXTILE GLASS FIBER**MONTEDISON**

Vado Ligure, Liguria

VETROTEX ITALIA (formerly Vetreteria Italiana Balzaretto & Modighani S.p.A.)
 Besana Brianza, Lombardia (yarn)

JAPAN**ASAHI CHEMICAL INDUSTRY CO., LTD.**

Acrylic Fuji *Cashimilon*, *Pewlon* (yarn & staple)

Nylon 6 66 Moriyama & Nobeoka *Asahi Kaser Nylon*, *Leona* (yarn, monofil & spunbonded)

Polyester Nobeoka *Asahi Kaser Ester* (yarn)

Rayon Nobeoka (reg & cupra yarn, cupra staple & cupra spunbonded)

Spandex Moriyama *Roka*

DAIWA SPINNING CO., LTD. •

Polyester Hanima *Daiwabo Polyester* (staple)

Rayon Masuda (staple)

FUJI SPINNING CO., LTD.

Rayon Toyo (staple)

Spandex Kozakai *Fujibo Spandex*

JAPAN EXLAN CO., LTD.

Acrylic Saitaji *Exlan* (staple)

KANEBO, LTD.

Rayon Hofu (staple)

KANEBO SYNTHETIC FIBERS, LTD.

Acrylic Hofu *Kanebo Acryl* (staple)

Nylon 6 Hofu *Kanebo Nylon* (yarn)

Polyester Hofu & Sabae *Kanebo Polyester* (yarn)

Spandex Hofu *Kanebo Spandex*

KANEGAFUCHI CHEMICAL INDUSTRY CO., LTD.

Modacrylic Takasago *Kanecaron*, *Kanekalon* (staple & tow)

KOHJIN CO., LTD.

Rayon Yatsushiro (staple)

Polychloral Yatsushiro *Cordelean* (staple)

KURARAY CO., LTD.

Polyester Saio & Tamashima *Kuraray Ester* (yarn & staple)

Rayon Kurashiki, Saio & Tamashima (reg yarn)

Vinal Okayama *Cremona Kuralon* (yarn, monofil & staple)

KUREHA CHEMICAL INDUSTRY CO., LTD.

Saran Kaibara & Mibu *Krebalon* (yarn & monofil)

Vinyon Kaibara & Mibu *Vicon* (monofil)

MITSUBISHI ACETATE CO., LTD.

Acetate Toyama (yarn & tow)

Triacetate Toyama (yarn)

MITSUBISHI RAYON CO., LTD. •

Acrylic Otake *Finel*, *Silpalon*, *Vonnal* (yarn & staple)

Polyester Toyohashi *Solima* (yarn & staple)

NIPPON ESTER CO., LTD.

(subsidiary of Unitika, Kanebo and Mitsubishi Chemical Industry)

Polyester Okazaki & Sabae *Kanebo Ester*, *Unitika Ester* (yarn & staple)

NISSHIN SPINNING CO., LTD.

Rayon Tokushima (staple)

Spandex Tokushima *Mobilon* (fused multifil)

NITIVY CO., LTD.

Vinal Fujioka *Niti Nylon*, *Soleron*, *Vilon* (yarn)

NITTO BOSEKI CO., LTD. • (See Ube Nitto Kasei)

Rayon Fukuyama (staple)

OMIKENSHI CO., LTD.

Rayon Kakogawa (staple)

TEIJIN LTD.

Aramid Iwakuni *Teijincomex* (staple)

Nylon 6 Mihara *Teijin Nylon* (yarn)

Polyester Ehime, Iwakuni, Matsuyama & Tokuyama *Teijin Tetoron* (yarn & staple)

Vinyon Iwakuni *Teivron* (yarn)

TEIJIN ACETATE LTD. (subsidiary of Teijin Ltd.)

Acetate Matsuyama (yarn)

JAPAN (Continued)

TOHO BESLON CO., LTD.

Acrylic Mishima *Beslon* (staple & tow)

TOHO RAYON CO., LTD.

Rayon Tokushima *Toris* (staple)

TORAY INDUSTRIES, INC.*

Acrylic Ehime *Toraylon* (staple)Fluoro Ehime (pilot plant) *Toyoelon* (yarn)Nylon 6 Aichi, Nagoya, Okazaki & Shiga *Amilan*, *Toray Nylon* (yarn & staple)Nylon 6 66 copolymer Aichi *Tapilon* (yarn)Nylon 66 Aichi *Promilan* (yarn)Polyester Ehime, Ishikawa, Mishima & Okazaki *Toray Tetoron* (yarn & staple)

TORAY MONOFILAMENT CO., LTD.

Nylon 6 Okazaki *Toray Nylon* (monofil)

TOYO CHEMICAL CO., LTD.

Vinylon Ofuna *Enylon* (monofil)

TOYO PRODUCTS CO., LTD.

Spandex Shiga *Opelon* (fused multifil)

TOYOBO CO., LTD.

Nylon 6 Tsuruga *Toyobo Nylon* (yarn)Polyester Iwakuni & Tsuruga *Toyobo Ester* (yarn & staple)Promix Tsuruga *Chimon* (yarn)Rayon Iwakuni *Tufcel* (staple)Spandex Tsuruga *Espa*

TOYOBO PETCORD CO., LTD.

Polyester Tsuruga *Toyobo Petcord* (yarn)

UNITIKA LTD.

Nylon 6 Uji *Unitika* (yarn, monofil & staple)Polyester Okazaki *Marix* (ind yarn & spunbonded)

UNITIKA KASEI CO., LTD.

Vinal Sakoshi (Akok City) *Meulon* (yarn, monofil & staple)

UNITIKA RAYON CO., LTD.

Rayon Okazaki & Uji (ind & reg yarn)

YOSHIDA KOGYO K.K.

Polyester Kurobe (yarn)

OLEFIN FIBERASAHI DOW LTD. Suzuka *Bellex* (E & P monofil)CHISSO POLYPRO FIBER CO., LTD. Moriama *Chisso Polypro*, *ES Fiber* (P staple & film)DAIWA SPINNING CO., LTD. Harima *Daiwacabo Polypro* (P staple)

HAGIWARA INDUSTRY CO., LTD. Kurashiki (E monofil & film)

HIRATA SPINNING CO., LTD. Yokkaichi *Hiralon* (E & P yarn & monofil)

INABA SEIKO, LTD. Gamagori (E monofil)

KANEYA SEIKO, LTD. Hokkaido & Kushiro (P monofil)

MARUAI CO., LTD. Toyohashi (E monofil)

MITSUBISHI RAYON CO., LTD. Toyohashi *Mitsubishi Pylon* (P yarn & monofil)MITSUI TOATSU CHEMICALS, INC. Nagoya *Hi Zex* (E monofil)

NAGANO KAKO CO., LTD. Nagano (E monofil)

SHOWA POLYMER CO., LTD. Ibaraki (E monofil & film)

TAISEI RAYON CO., LTD. Mito (E & P monofil)

TANIYAMA CHEMICAL INDUSTRY CO., LTD. Okayama *Tanikalon* (E monofil)TOA WOOL SPINNING & WEAVING CO., LTD. Tomari *Toabo Polypro* (P staple)TONEN SEKIYU KAGAKU K.K. (TONEN PETROCHEMICAL CO., LTD.) Kawasaki *Tapyrus* (P spunbonded)TORAY INDUSTRIES, INC. Shiga *Toray Pylon* (P yarn & staple)UBE NITTO KASEI CO., LTD. Fukuyama & Gifu *Sun Line*, *Ube Nitto*, *Polypro* (E monofil & P yarn, monofil & staple)

The following companies produce olefin film fiber: DAIDO KASEI, Osaka;

FUJIMOTO SANGYO, Osaka; OKAMOTO CHEMICAL, Ehime; SAKAI Osaka; SANJO JUSHI, Yokkaichi; SANTO CHEMICAL, Aichi; SHI CHEMICAL, Amagasaki & Nara; TOYAMA, Chiba; WAKO SPINNING CO. and YAMAJIN TEXTILE, Fukui.

TEXTILE GLASS FIBER

ASAHI FIBER GLASS CO., LTD.

Ibaraki & Shonan *Glasslon*

ASAHI PPG LTD.

Plant site undetermined*

ASAHI SCHWEBEL CO., LTD.

Moriyama

CENTRAL GLASSFIBER CO., LTD.

Matsusaka

FUJI FIBER GLASS CO.

Moka

KANEBO GLASS FIBER CO., LTD.

Gunma *Textoglass*

NIPPON GLASS FIBER CO., LTD.

Ibaraki & Tsu *Micro Glass*

THE NIPPON MINERAL FIBER MFG. CO.

Tarui & Yuki *Superfine*

NITTO BOSEKI CO., LTD.

Fukushima *Iceberg*

PARAMOUNT GLASS MFG. CO., LTD.

Koriyama & Suzuka *Fether Glass*

SANRIKU FIBERGLASS INDUSTRY CO., LTD.

Fujiwara *Sanrifine*

UNITIKA U.M. GLASS CO., LTD.

Kyoto *Unitika U.M.***KENYA**

AFRICA SYNTHETIC FIBER LTD.

Nylon 6 Thika (yarn)

Polyester Thika (staple)

KENYA FIBRE CORPORATION LTD.

Polyester Nanyuki (yarn)

OLEFIN FIBER

UNISACK LTD. Thika (P film)

KOREA, PEOPLE'S DEMOCRATIC REPUBLIC OF (NORTH)A number of man-made fiber plants are said to be operating in North Korea June 1970 *Organon* issue, page 113; however, no data for this country is recorded in any table of this issue due to lack of reliable information.**KOREA, REPUBLIC OF (SOUTH)**

CHEIL SYNTHETIC TEXTILES COMPANY

Polyester Kumi *Edon* (yarn & staple)

DAE HAN SYNTHETIC FIBER COMPANY

Polyester Pusan & Ulsan *Acelan* (yarn & staple)

DAE SUNG WOOL INDUSTRIAL COMPANY

Polyester Seoul (yarn)

HANIL SYNTHETIC FIBER INDUSTRIAL COMPANY

Acrylic Masan *Cashmilon* (staple)

JEIL SYNTHETIC FIBERS COMPANY*

Polyester Seoul *Oplon* (yarn)

KOHAP, LTD.*

Nylon 6 Shihung *Palmylon* (yarn & staple)

Polyester Shihung (yarn & staple)

KOLON INDUSTRIES INC.

Nylon 6 Kumi & Taegu *Kolon* (yarn)Polyester Kumi *Kolon* (yarn)

KORYO NYLON COMPANY

Nylon 6 Sungsumyun (yarn)

SAM KWANG-MOOLSAN COMPANY, LTD.

Polyester Ki Jang (yarn)

SAM YANG COMPANY, LTD.

Polyester Chunju *Triron* (yarn & staple)

KASEI,
EKISUI
O., Gifu.**KOREA, REPUBLIC OF (SOUTH)** (Continued)**SUNKYUNG FIBRES LTD.**

Acetate Suwon (yarn & tow)
Polyester Suwon & Ulsan *Sunkyung* (yarn & staple)

TAE KWANG INDUSTRIAL COMPANY

Acrylic Ulsan *Acelan* (staple)
Spandex Ulsan

TONG YANG NYLON COMPANY

Nylon 6 Anyang & Ulsan *Toplon* (yarn)
Polyester Ulsan *Toplon* (yarn)

TONG YANG POLYESTER COMPANY

Polyester Ulsan *Toplon* (yarn)

WONJIN RAYON COMPANY, LTD.

Rayon Donong *Coray* (reg yarn & staple)

OLEFIN FIBER

JEIL SYNTHETIC FIBERS COMPANY Seoul *Opene* (P yarn & staple)

KOHAP, LTD. Shihung *Pylon, Happyton* (P staple)

KUMSUNG SYNTHETIC FIBER CO., LTD. Seoul *Hopelon, Polon* (P staple)

LUXEMBOURG**TECHNOFIBRES**

Polyester Mertert (yarn)

Production data are combined with Belgium and the Netherlands under "Benelux" on page 108.

OLEFIN FIBER

DU PONT FIBRES S.A. Contem Hesperange *Typar* (P spunbonded)

MALAYSIA**PENFIBRE SDN. BHD.**

Polyester Penang (staple)

MALTA**MONTEFIBRE MALTA LTD.**

Nylon 6 Qormi *Helton* (yarn)

Production data are combined with Italy.

MEXICO**CELANESE MEXICANA, S.A.**

Acetate Ocotlán, Jalisco (yarn & staple)
Acrylic Zacapu, Michoacán (staple, tow & tops)
Nylon 6 Ocotlán & Toluca, México *Duracel, Nyxel* (yarn & staple)
Polyester Ocotlán, Querétaro, Querétaro & Toluca *Crolan* (yarn & staple)
Rayon Zacapu (ind & reg yarn & staple)

CELULOSA Y DERIVADOS, S.A.

Acrylic Atequiza, Jalisco *Crysel* (staple, tow & tops)
Rayon Monterrey, Nuevo León (ind & reg yarn)

FIBRAS QUIMICAS, S.A.

Nylon 6 Monterrey, Nuevo León *Supernylon Cydsa* (yarn & monofil)
Polyester Monterrey *Terlenka* (yarn)

FIBRAS SINTETICAS, S.A.

Acrylic Cotaxtla, Veracruz *Fisisa* (staple, tow & tops)
Nylon 6 México, D.F. *Fisisa* (yarn & monofil)
Polyester Cotaxtla & México *Fisisa* (yarn & staple)

FIBRASOMNI, S.A.

Nylon 6 Ixtapalapa, D.F. *Ommi-Nylon* (monofil)
Saran Ixtapalapa *Ommi-Saran* (monofil)

INDUSTRIAS PETROQUIMICAS MEXICANAS, S.A.

Polyester El Salto, Jalisco *Impetmex* (yarn)

KIMEX S.A.

Nylon 6 Tlalnepantla, México *Aztecon* (yarn)
Polyester Tlalnepantla *Kintrel* (yarn)

NYLON DE MEXICO, S.A.

Nylon 6 La Leona, Nuevo León *Nylfil* (yarn & staple)
Polyester La Leona *Dalcron* (yarn, staple, tow & fiberfill)
Spandex La Leona *Likra* (fused multifil)

PLASTICA MODERNA, S.A. de C.V.

Nylon 6 Tlalpan, D.F. *Perlux* (monofil)

PRODUCTOS PLASTICOS DE PUEBLA, S.A.

Nylon 6 Puebla, Puebla *Prokon* (monofil)

OLEFIN FIBER

FIBRASOMNI, S.A. Ixtapalapa, D.F. *Politen Ommi* (E monofil),
Polyprop Ommi (P yarn & monofil)

INDUSTRIAS POLIFIL, S.A. Ixtacuitla, Tlaxcala *Plana* (P yarn & staple)

PLASTICOS INDUSTRIALIZADOS, S.A. Monterrey, Nuevo León (P staple)

The following companies produce olefin film fiber: HILOS Y CORDELES, S.A., Tlalnepantla, México; PLASTICEL, S.A., Monterrey, Nuevo León (*Plasticef*), and POLISAC, S.A. (affiliate of Nylon de México, S.A.), Guadalajara, Jalisco (*Polisac*).

TEXTILE GLASS FIBER**VITRO-FIBRAS, S.A.**

Zacatenco, D.F. *Vitro-Fibras*

NETHERLANDS**DU PONT DE NEMOURS (NEDERLAND) N.V.**

Spandex Dordrecht *Lycea* (fused multifil)

ENKA B.V.

Nylon 6 Emmen *Enka Perlon, Enkalon* (yarn)
Aramid Arnhem *Arenka* (yarn)
Polyester Breda & Emmen *Duolen, Terlenka* (yarn & staple)
Rayon Arnhem (ind yarn) & Ede (reg yarn)

OLEFIN FIBER

LANKHORST TOLWFABRIEKEN B.V. Sneek *Tiptolene*
(E monofil & P film)

T.T.C. POLYOLEFINS B.V. Nijverdal (P monofil, film & staple)

N.V. VERTO Rotterdam (P film)

TEXTILE GLASS FIBER**SILENKA B.V.**

Hoogeveen (Groningen) *Enkafort, Silenka*

Rayon+acetate production data are combined with Belgium on page 110. Non-cellulosic production data are combined with Belgium and Luxembourg under "Benelux" on page 108.

NICARAGUA**OLEFIN FIBER**

MANUFACTURERA CENTRO AMERICANA S.A. (MACEN) Managua (P film)

NIGERIA**NICHEMTEX INDUSTRIES LTD.**

Polyester Ikorodu, Lagos *Nigerlene* (yarn & staple)

NORWAY**BORREGAARD A.S., FIBRE SECTION**

Rayon Sarpsborg (staple)

OLEFIN FIBER

A S PLATON, AVD. TEKSTIL. Notodden *Filmtex* (E & P film)

NORFIL NORPACK A S Stavem, near Larvik *Akriflex* (P yarn,
E & P monofil & film)

STÅL OG TAU Tonsberg *Norseflex* (P film)

TEXTILE GLASS FIBER**NORSK GLASSFIBER A S**

Birkeland

PAKISTAN**BENGAL FIBER INDUSTRIES, c/o BENGAL OIL MILLS LIMITED**

Nylon 6 Karachi *Nyapak* (yarn)

DILON LIMITED

Nylon 6 Landhi *Dilon* (yarn)
Polyester (yarn*)

ICI PAKISTAN MANUFACTURERS LTD.

Polyester Lahore *Tere-Pak* (yarn & staple)

NATIONAL FIBERS LIMITED

Polyester Korangi, Karachi *Polydene* (yarn & staple)

NILOM NYLON MILLS LIMITED

Nylon 6 Lyallpur *Nilom* (yarn & monofil)

PAKISTAN (Continued)

RAVI RAYON LIMITED		
Acetate	Kala Shah Kaku, Sheikhupura District	(yarn)
RUPALI POLYESTER LIMITED		
Polyester	Karachi	(yarn)

PERU

BAYER INDUSTRIAL S.A.		
Acrylic	Lima	<i>Dralon</i> (staple)
FILAMENTOS INDUSTRIALES, S.A.		
Polyester	Lima	(yarn)
MANUFACTURA NYLON S.A.		
Nylon 6	Vitarte, near Lima	(yarn)
Polyester	Vitarte	<i>Diolen</i> (staple)
MANUFACTURAS DEL SUR S.A.		
Nylon 6	Arequipa	<i>Long Life, Mistlon</i> (yarn)
Polyester	Arequipa	(yarn & staple)
RAYON Y CELANESE PERUANA S.A.		
Acetate	Lima	(yarn)
Polyester	Lima	<i>Forcel</i> (yarn, staple, tow & tops)
RETEX PERUANA, S.A.		
Nylon 6	Ventania, Callao	(yarn)

The following companies produce olefin film fiber: NORSAC S.A., Trujillo; POLICEL DEL PERU S.A., Lima; SACOS DEL SUR S.A., Arequipa; and SACOS PISCO S.A., Pisco.

PHILIPPINES, REPUBLIC OF THE

AMERICAN PHILIPPINE FIBER		
Nylon 6	San Pedro, Laguna	<i>APFI</i> (yarn)
FILIPINAS SYNTHETIC FIBER CORPORATION		
Polyester	Sta. Rosa, Laguna	<i>Filsyn</i> (yarn & staple)
LAKEVIEW INDUSTRIAL CORPORATION		
Polyester	Carmona, Rizal	<i>Licron</i> (yarn & staple)
PHILIPPINE POLYAMIDE INDUSTRIAL CORPORATION (PPIC)		
Nylon 6	Calamba, Laguna	<i>Philippine Polyamide</i> (yarn)
TEXTFIBER CORPORATION		
Nylon 6	Taytay, Rizal	<i>Texfiber</i> (yarn)
UNIRAYON FIBER CORPORATION		
Rayon	Iloilo	(staple)

OLEFIN FIBER

INDUSTRIAL TEXTILE MANUFACTURING CO. (ITEMCOP)		
	Mandaluyong, Rizal	(P film)
MANILA CORDAGE COMPANY		
	Manila	(P film)

POLAND

CHODAKOWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK"		
Rayon	Sochaczew	(reg yarn)
WROCŁAWSKIE ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK"		
Rayon	Wrocław	(reg yarn)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK ANILANA"		
Acrylic	Łódź	<i>Anilana</i> (staple)
Azlon	Łódź	<i>Wipolan</i> (staple, casein base)
Rayon	Łódź	(staple)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK CELWISKOZA"		
Polyester	Jelenia Góra	<i>Elana</i> (staple)
Rayon	Jelenia Góra	(staple)
Spandex	Jelenia Góra (pilot plant)	<i>Elaston</i> (yarn)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK ELANA"		
Polyester	Toruń, Bydgoszcz	<i>Torlen</i> (yarn), <i>Elana</i> (staple)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK STILON"		
Nylon 6	Gorzów Wielkopolski	<i>Lanastil, Stilon</i> (yarn), <i>Polana</i> (staple)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK WISKORD"		
Rayon	Szczecin-Zydowce	(ind & reg yarn)
ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK WISTOM"		
Rayon	Tomaszów Mazowiecki, Łódź	(ind & reg yarn & staple)

OLEFIN FIBER

ZAKŁADY PRZEMYSŁU LNIARSKIEGO LENKO		
	Bielsko-Biala	(P film)

ZAKŁADY PRZEMYSŁU LNIARSKIEGO SKARBKÓW		
	Minsk, Wrocław	(P staple)

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK WISKORD"		
	Szczecin-Zydowce	(P staple)

TEXTILE GLASS FIBER

KROŚNIENSKIE HUTY SZKŁA		
	Krosno	

ZAKŁADY WŁOKIEN CHEMICZNYCH "CHEMITEK ANILANA"		
	Łódź	<i>Polston</i>

PORTUGAL

COMPANHIA INDUSTRIAL DE FIBRAS ARTIFICIAIS (CIFA), S.A.R.L.		
Nylon 6	Sobrado, Valongo	<i>Cifalon</i> (yarn)
Rayon	Sobrado	(reg yarn & staple)
FIBRAS SINTÉTICAS DE PORTUGAL, S.A.R.L. (FISIPE)		
Acrylic	Lisbon	<i>Vornel</i> (staple, tow & tops)
FINICISA - FIBRAS SINTÉTICAS, S.A.R.L.		
Polyester	Portalegre, Alto Alentejo	<i>Terylene</i> (staple)
TÊXTEL ARTIFICIAL DO PORTO, LDA.		
Rayon	Porto	(reg yarn)

OLEFIN FIBER

ALICATIFAS DA LOUSA		
		(P staple)
FERCOL		
		(P staple)
LUSOTUFO		
		(P staple)

QUÍMIGAL - QUÍMICA DE PORTUGAL, E.P.		
	Barreiro	(P staple & film)

The following companies produce olefin film fiber: CERFIL, Mai; CORDEX - COMPANHIA INDUSTRIAL TÊXTEL, S.A.R.L., Esmeriz; C. COMPANHIA DE TEXTOS SINTÉTICOS S.A.R.L., Carvalhos; E.U. INDUSTRIAS DE PETROLEOS PLASTICOS E FILAMENTOS, S.A.R.L., FABRICA DE TAPETES VITÓRIA, Mira d'Aire; FERNANDES & COSTA, Seia; MANUEL RODRIGUES DE LIMA & FILHOS, Cortegaga; M. RODRIGUES D'OLIVEIRA, S.A. LDA., M. Maia; QUINTAS & QUINTA de Vazim; and SICOR - SOCIEDADE INDUSTRIAL DE CORDOARIA Cortegaga.

TEXTILE GLASS FIBER

QUÍMIGAL - QUÍMICA DE PORTUGAL, E.P.		
	Barreiro	

ROMANIA

COMBINATUL DE FIBRE ARTIFICIALE		
Rayon	Brăila, Dej & Suceava	(ind yarn & staple)
FABRICA DE FIBRE ARTIFICIALE "VISCOFIL"		
Rayon	Popesti Leordeni, near Bucuresti	(reg yarn)
FABRICA DE FIBRE ARTIFICIALE "VISCOZA"		
Rayon	Lupeni	(reg yarn)
ROMCHIN STATE ENTERPRISES		
Polyester	Vaslui	(yarn)
UZINA DE FIBRE SINTETICE IASI		
Polyester	Iasi	<i>Teron</i> (yarn, staple, tow & tops)
UZINA DE FIBRE SINTETICE SĂVINEȘTI		
Acrylic	Săvinești, near Piatra Neamt (Bacau Region)	<i>Melama</i> (staple)
Nylon 6	Săvinești	<i>Relon</i> (yarn & staple)

SOUTH AFRICA, REPUBLIC OF

CONSOLIDATED TEXTILE MILLS (part of Frame Group of Companies)		
Polyester	Jacobs, Natal	(yarn & staple - captive)
HOECHST SOUTH AFRICA (PTY.) LTD.		
Polyester	Milnerton, Cape Province	<i>Trevira</i> (staple)
KAYMAE INDUSTRIES		
Polyester	Bidm	(spunbonded)
SOUTH AFRICAN NYLON SPINNERS (PTY.) LIMITED		
Nylon 66	Bellville, Cape Province	<i>Bri Nylon</i> (yarn)
Polyester	Bellville & Hammarsdale, Natal	<i>Terylene</i> (yarn)

OLEFIN FIBER

ROMATEX MILLS		
	Jacobs, Natal	(P film)

SOUTH AFRICA, REPUBLIC OF (Continued)**TEXTILE GLASS FIBER**

FIBREGLOSS SOUTH AFRICA (PTY.) LIMITED
New Era, Springs, Transvaal

SPAIN

BRILEN S.A.

Polyester Barbastro, Huesca & Igualada, Barcelona (yarn & staple)

CYANENKA S.A.

Acrylic Prat de Llobregat, Barcelona *Critlenka* (staple & tow)

EMPRESA NACIONAL DE CELULOSA, S.A.

Rayon Miranda de Ebro, Burgos (staple)

INDUSTRIAS DEL ACETATO DE CELULOSA, S.A. (INACSA)

Acetate La Batlloria, Barcelona (yarn)

INDUSTRIAS QUIMICAS TEXTILES S.A. (INQUITEX)

Nylon 6 Andoain, Guipuzcoa *Carbyl, Nylhair, Trinyl* (yarn & staple)

LA SEDA DE BARCELONA, S.A.

Nylon 6 Alcalá de Henares, Madrid *Dayan, Enkalon* (yarn & staple)

Polyester Prat de Llobregat, Barcelona *Terlenka* (yarn & staple)

Rayon Prat de Llobregat (ind & reg yarn)

MONTEFIBRE HISPANIA S.A.

Acrylic Miranda de Ebro, Burgos *Leacril* (staple)

NUREL S.A.

Nylon 6 Zaragoza, Zaragoza *Nurel* (yarn)

Polyester Zaragoza *Terylene* (yarn & staple)

SOCIEDAD ANONIMA DE FIBRAS ARTIFICIALES (SAFA)

Nylon 66 Blanes & San Julian de Ramis, Gerona *SAFA* (yarn & staple)

Polyester Blanes *Tergal, Teriber* (yarn & staple)

Rayon Blanes (staple)

SOCIEDAD NACIONAL DE INDUSTRIAS APLICACIONES CELULOSA
ESPANOIA, S.A. (SNACE)

Nylon 6 Torrelavega, Santander *Lilion* (yarn)

Rayon Torrelavega (reg yarn & staple)

OLEFIN FIBER

PAULAR, S.A. — EMPRESA PARA LA INDUSTRIA QUIMICA Puertollano, C.R.
Istrakin (P monofil & film)

PROFLEX (P staple)

PROFILAN (P staple)

SERINA TEXTIL (P staple)

SOCIEDAD ANONIMA ITALO ESPANOIA (SAITES) Sabadell, Barcelona
(P staple & film)

TEXTIL ARMENGOL Bruch, Barcelona (P staple & film)

The following companies produce olefin film fiber: CONDEROLS S.A., Granada; CORDELERIAS BARAS S.A., Gijón, Asturias; CORDELERIAS MAR S.A., Vigo, Pontevedra; HILATURAS Y CORDELERIA S.A. "HILCOSA," Barcelona; HIRESA, Callosa de Segura, Alicante; and YUTE INDUSTRIAL S.A., Valencia.

TEXTILE GLASS FIBER

FIBRAS MINERALES, S.A.

Alcalá de Henares, Madrid *Vitrotex*

SRI LANKA

CEYLON PETROLEUM CORPORATION

Nylon 6 Sapugaskanda, near Colombo (yarn & monofil)

SWEDEN

SONESSON PLAST AB

Nylon 6 66 Malmö (monofil)

SVENSKA RAYON AKTIEBOLAGET

Rayon Älvenäs, Vällberg (staple)

OLEFIN FIBER

SONESSON PLAST AB Malmö *Laveten* (E & P monofil)

TEXTILE GLASS FIBER

SCANDINAVIAN GLASFIBER AKTIEBOLAG

Falkenberg

SWITZERLAND

EMS INDUSTRIES, LTD.

Nylon 6 Ems, Graubünden *Griton* (yarn & staple)

Polyester Domat Ems *Griene* (staple)

VISCOUSISSE AG

Nylon 6 66 Emmenbrücke, Luzern & Widnau, St. Gallen *Nylsuisse, Flexor*

Polyester Widnau *Tersuisse* (yarn) (yarn)

The following companies produce olefin film fiber: AROVA SCHAFFHAUSEN A.G., Schaffhausen and VOGT & CO., Reinach.

TAIWAN

CENTURY CHEMICAL INDUSTRY CORPORATION

Polyester Tainan *Centuron* (yarn)

CHENTA CHEMICAL INDUSTRIAL CORPORATION

Nylon 6 Kaohsiung *Rabbit* (yarn)

CHINA MAN MADE FIBER CORPORATION

Rayon Tou Fen (reg yarn & staple)

FORMOSA CHEMICALS & FIBER CORPORATION (part of Formosa Plastics

Nylon 6 Chang Hwa *Synlon* (yarn) Group)

Rayon Chang Hwa (staple)

FORMOSA PLASTIC CORPORATION (part of Formosa Plastics Group)

Acrylic Kaohsiung & Lanchu *Tairylan* (staple, tow & tops)

HSIEH CHIN FISHING NET COMPANY, LTD. •

Nylon 6 Kaohsiung *Hsieh Chin* (monofil captive)

HUALON TEIJIN CORPORATION

Nylon 6 Chunggho, Tao Yuan & Tou Fen (yarn)

Polyester Chunggho, Tou Fen & Yim Kao *Hualon* (yarn & staple)

HUNG CHOU CHEMICAL INDUSTRY COMPANY, LTD.

Polyester Kwei Shan *Hunutra* (yarn)

JANG DAH NYLON INDUSTRIAL COMPANY, LTD.

Nylon 6 Hsin Tien *Yuan Pao* (yarn)

LIEN YU INDUSTRIAL COMPANY, LTD.

Nylon 6 Lin Tu *Pagoda* (yarn)

Polyester Lin Tu *Pagoda* (yarn)

NAN YA PLASTIC CO., POLYESTER DIVISION (part of Formosa Plastics

Polyester Tai Shan *Tairylon* (yarn & staple) Group)

ORIENTAL CHEMICAL FIBER CORPORATION

Polyester Hsiao, Chu *Easdlene, Eastlon* (yarn & staple)

PACIFIC ENTERPRISES LTD.

Nylon 6 Tao Yuan *Pei* (yarn)

Polyester Tao Yuan (yarn)

SAN YUAN HING ENTERPRISE COMPANY

Nylon 6 Kaosung (monofil captive)

SHINKONG SYNTHETIC FIBERS CORPORATION

Polyester Tao Yuan *Shinlon* (yarn & staple)

SYNTHETIC FIBER MILLS CORPORATION

Nylon 6 Tao Yuan *Synlon* (yarn)

TA MING FIBERS INDUSTRIES CORPORATION

Nylon 6 Tao Yuan *Ta Ming Nylon* (yarn)

Polyester Tao Yuan *Poylon* (yarn)

TA SHING CHEMICAL FIBER CO., LTD.

Nylon 6 Tao Yuan *Taslon* (yarn)

Polyester Tao Yuan *Taslon* (yarn & staple)

TAINAN SPINNING CO., LTD.

Polyester Tainan *Nanlon* (yarn & staple)

TONG HWA SYNTHETIC FIBER CO., LTD.

Acrylic Chu Pei *Townflower* (staple & tow)

TUNG HO SPINNING WEAVING & DYEING CO., LTD.

Polyester Tainan *Pearlylene* (staple)

TUNTEX FIBER CO., LTD.

Polyester Hsin Su *Tuntex* (yarn)

UNITED SYNTHETIC FIBERS CORPORATION

Polyester Tao Yuan *King Long* (staple)

VANLON FIBERS INDUSTRIAL CORPORATION

Nylon 6 Tao Yuan *Vanlon* (yarn)

Polyester Tao Yuan *Vanlon* (yarn)

TAIWAN (Continued)**YU HO FIBER INDUSTRIAL CORPORATION**Polyester Tao Yuan *Luden* (yarn)**YUNG CHIN FIBER CO., LTD.**Nylon 6 Kaohsiung *Hailon* (yarn)**OLEFIN FIBER**

CHIA YANG INDUSTRIAL CO., LTD. Hsi Chih (P monofil)

CHIEN SUN PLASTIC INDUSTRIAL CO., LTD. Hsin Chu (E & P film)

CHINA FOLEX CORPORATION Shih Lin (E & P monofil)

CHUNG KUANG PLASTIC CO., LTD. Chang Hua (E & P film)

FULLMARK INDUSTRIAL CO., LTD. Hsin Chu (E & P monofil)

FU'U WON CHEMICAL INDUSTRIAL CO., LTD. Tu Chen (P yarn)

HSIEH CHIN FISHING NET COMPANY, LTD. Kaohsiung *Hsieh Chin* (E monofil - captive)

HUNG FENG ENTERPRISE CO., LTD. Yang Mei (P monofil)

IEN YI FIBER INDUSTRIAL CO., LTD. Chi-Do Goble (E monofil)

JU' I CHEMICAL INDUSTRIAL CO., LTD. Tou Yuan (E & P monofil)

KU'O HSIANG ENTERPRISE CO., LTD. Yang Mei (E & P monofil)

LIEN FU CHEMICAL COMPANY LTD. Tou Fen (E & P monofil)

MEI LON FIBER CO., LTD. Chang Hua (E monofil)

PAO TSUNG TAI INDUSTRIAL COMPANY LTD. Tainan (P film)

POLON FIBER INDUSTRIAL CO., LTD. Chung Li (P monofil)

SAN YANG INDUSTRIAL COMPANY LTD. Nei Hu Hsiang (P film)

TAI YEE CHEMICAL INDUSTRIAL CO., LTD. Chung Li (E & P monofil)

UNITED FIBER INDUSTRIAL CO., LTD. Chung Li (E & P monofil)

YAO CHENG PLASTIC CO., LTD. Pan Chiao (P yarn)

THAILAND**ASIA FIBER CO. LTD.**Nylon 6 Samut Prakan *AFC* (yarn)**HANTEX CORPORATION LTD.**Nylon 6 Mahachulalongkornrajavidyalaya *Sakorn* (yarn)**ORIENTAL FIBRE**

Polyester Samut Sakhorn (yarn)

TEIJIN POLYESTER (THAILAND) LIMITEDPolyester Rangsit, Bangkok *Tegim Tetoron* (yarn & staple)**THAI MELON POLYESTER CO. LIMITED**

Polyester Pathumthani, near Bangkok (yarn & staple)

THAI RAYON CO. LTD.

Rayon Ang Thong (staple)

TORAY NYLON THAI COMPANYNylon 6 Bangkok, Bangkok *TAT* (yarn & monofil)Polyester Bangkok *Toray Tetoron* (yarn)**TURKEY****AKRILIK KIMYA SANAYII A.S. (AKSA)**Acrylic Yalova *Aksa* (staple)**FILAMENT SENTETIK IPLIK VE ELYAF SANAYII A.S.**Polyester Bursa *Filament* (yarn & staple)**GEMLIK SUNI IPEK VE VISKOZ MAMULLERI SANAYII MÜESSESESİ (GEMLIK ARTIFICIAL SILK & VISCOSE PRODUCTS INDUSTRY)**

(Operated by The Sumerbank)

Rayon Gemlik (reg yarn & staple)

INSA ISTANBUL NAYLON SANAYI A.S.Nylon 6 Istanbul *Isilon* (yarn)

Polyester Istanbul (yarn)

M.N. SABUNCUPolyester Adana *MNS* (yarn)**POLYLEN SENTETIK IPLIK SANAYII A.S.**Polyester Bursa *Polylen* (yarn)**SANCAK TUL SANAYII LTD., STI.**Polyester Istanbul *Lalelen* (yarn)**SASA SUNI VE SENTETIK ELYAF SANAYII A.S.**Polyester Adana *Perilon* (yarn & staple)**SENTETIK IPLIK FABRIKALARI, A.S. (SIFAS)**

(SYNTHETIC YARN FACTORIES CORPORATION)

Nylon 6 Bursa *SIFAS* (yarn & staple)

Nylon 66 Bursa (yarn)

Polyester Bursa (yarn & staple)

TEKSTİPLİK SANAYII VE TİCARET A.Ş.Nylon 6 Edirne *Dimlon* (yarn)**YALOVA ELYAF VE IPLIK SANAYII VE TİCARET A.Ş.**Acrylic Yalova *Yalova* (staple & tow)Modacrylic Yalova *Yalova* (staple & tow)**OLEFIN FIBER**

DEĞİRMENCİLİK A.Ş. Kayseri (P yarn)

ELSAN ELYAF SANAYI VE TİCARET A.Ş. İstanbul (P staple)

SENİPEK TEKSTİL SANAYI VE TİCARET A.Ş. Bursa (P yarn)

TEXTILE GLASS FIBER**CAM ELYAF SANAYII A.Ş.**

Çayırova-Gebze (Izmit)

UNION OF SOVIET SOCIALIST REPUBLICS

The incomplete and perhaps inaccurate plant listings shown on page 93 of the June 1971 issue are not repeated here.

Rayon plants have been reported at Balakovo, Barnaul, Cherkassy (Ukraine), Kalinin, Kamensk, Kiev, Klin, Krasnoyarsk, Leningrad, Mogilev, Ryazan, Saratov, Sokol, Sverdlovsk and Svetlogorsk.

Acetate plants have been reported at Engels, Fergana, Kaunas, Kirovakan and Moscow.

Nylon plants are reported at Barnaul, Chernigov, Daugavpils, Engels, Grodno, Kemerovo, Kiev, Klin, Kursk, Leningrad, Rustavi, Shebekino and Zhitomer.

Other non-cellulosic fiber plants are located at Kustanay (vinylon), Minsk (polyester), Mogilev (polyester), Navoi, Polotsk (acrylic+modacrylic) and Saratov.

Textile glass fiber plants are reported at Astrakhan, Kalinin, Khabarovsk, Leningrad, Mingechar, Moscow, Polotsk, Salavat, Saratov, Sevan and Severodonetsk.

UNITED KINGDOM**ANGLIA FIBRES PLC**

Polyester Hadleigh, Suffolk (monofil)

Polyvinylfluoride Hadleigh *Kynar* (monofil)Saran Hadleigh *Saran* (monofil)**COURTAULDS, PLC**Acrylic Grimsby, Lincolnshire *Courtele* (staple)Modacrylic Coventry, Warwickshire *Teklan* (staple)

Rayon Grimsby & Holywell, Clwyd, Wales (staple)

COURTAULDS ACETATE PLC

Acetate Coventry, Spondon, Derbyshire; & Wrexham, Clwyd, Wales (yarn & staple)

Triacetate Coventry & Spondon (yarn & staple)

DUPONT (U.K.) PLCSpandex Maydown, Londonderry, N. Ireland *Lycra* (fused multifil)**HOECHST FIBRE INDUSTRIES U.K. PLC**Polyester Limavady, Londonderry, N. Ireland *Trevira* (yarn & monofil)**ICI FIBRES (a division of Imperial Chemical Industries PLC)**Nylon 66 Doncaster, Yorkshire; Gloucestershire & Pontypool, Gwent, Wales *Bri-Nylon, Counterstat, Pawanne, Tendrelle, Timbrelle* (yarn, staple & tow)Biconstituent Pontypool *Cambrelle, Floratex, Terram* (melded fabrics)Polyester Pontypool & Wilton, Yorkshire *Mitrelle, Terylene* (yarn, staple & tow)**MONSANTO PLC**Acrylic Coleraine, Londonderry, N. Ireland *Acrilan* (staple, tow & tops)**NYMOFIL PLC**

Nylon 6 & 66 Poulton le Fyde, Lancashire (monofil)

Polyester Poulton le Fyde (monofil)

PERI LUSTA PLC

Nylon 6 66 Leek, Staffordshire (monofil)

PLASTICISERS PLCNylon 6 & 66 Drighlington, Yorkshire *Dimafil* (yarn)

UNITED KINGDOM (Continued)**OLEFIN FIBER****AMOCO FABRICS, DIVISION OF AMOCO (U.K.) PLC**

Consett, Durham (P film)

ANGLIA FIBRES PLC Hadleigh, Suffolk *TPN* (E & P monofil)**BELFAST ROPEWORK CO. PLC** Belfast, N. Ireland *Bluebell*
(E & P monofil, P yarn, staple & film)**CROMPTON AND BROTHERS** (P staple)**DON FIBRES PLC** Forfar, Angus, Scotland (P yarn, monofil, staple & film)**F. DRAKE (FIBRES) PLC** Colcar, Huddersfield, Yorkshire *Gymene* (P staple)**FILTRONA TEXTILE PRODUCTS PLC** Dundee, Angus, Scotland
Filtrona (P film), *Filtrona Fibre* (P staple)**FLEMMING'S ROPE & TWINES (WOOLSTON) PLC** Warrington, Lancashire
(P monofil)**GREENVILLE CARPETS PLC** Belfast, N. Ireland (P yarn)**HALL'S BARTON ROPERY CO. PLC** Hull, Yorkshire (P film and E & P
monofil)**THE HAWKINS AND TIPSON GROUP** Hailsham, East Sussex (P staple &
film)**MCCLEERY LAMIE GROUP PLC** Belfast, N. Ireland (P yarn)**NORTHERN IRELAND CARPETS PLC** Belfast, N. Ireland (P staple)**PLASTICISERS PLC** Drighlington, Yorkshire *Drylene* (E monofil),
Charisma, *Duron*, *Fibrile*, *Triton* (P yarn, monofil, film & staple)**POLYOLEFIN FIBRES & ENGINEERING PLC** Bradford, Yorkshire
Dounspan (P staple)

The following companies produce olefin film fiber: **BONAR TEXTILES PLC**, Dundee, Angus, Scotland; **BRIDON FIBRES & PLASTICS PLC**, Gateshead & Sunderland, Durham & Wallsend, Northumberland *Broplene*, *Red Star*, *Viking*; **FAIRBAIRN LAWSON PACKAGING PLC**, Barnsley, Yorkshire; **POLYTAPE PLC**, Dundee, Angus, Scotland *Propafil*, *Propatape*; **ROKO CONTAINERS** Nottingham; **ROTHES PLASTICS PLC**, Glenrothes, Fife, Scotland; **SMITH & NEPHEW POLYFABRIK PLC**, Newhey, near Rochdale, Lancashire *Polyureave*; **SYNTHETIC FABRICS (SCOTLAND) PLC**, Forfar, Angus; **SYNTHETIC INDUSTRIES (IRELAND) PLC**, Newry, Down, N. Ireland; **TALBOT WEAVING CO. PLC**, Chorley, Lancashire; and **TAY TEXTILES**, Dundee, Angus, Scotland.

TEXTILE GLASS FIBER**FIBREGLASS PLC** (subsidiary of Pilkington Brothers PLC)
Wrexham, Clwyd, Wales *Fiberglass***TBA INDUSTRIAL PRODUCTS PLC**

Camberley, Surrey & Hindley Green, Lancashire

FIBREGLASS-REGINA, a joint venture of FIBREGLASS PLC and the **BBA GROUP PLC**, is producing textile glass tissue (voile) at Liversedge and St. Helens, Merseyside.

UNITED STATES OF AMERICA**ALBANY INTERNATIONAL - MONOFILAMENT PLANT***Fluoro Homer, NY *Halar*, *Kynar*, *Teflon*, *Tefzel* (monofil)

Nylon 6, 66 & 612 Homer (monofil)

Polyester Homer (monofil regular & hydrolysis resistant)

ALLIED FIBERS AND PLASTICS COMPANYNylon 6 Columbia, SC & Hopewell, VA *A.C.E.*, *Anso*, *Caprolan*, *Nypel*
(yarn, monofil & staple)Polyester Moncure, NC *A.C.E.* (yarn & monofil)**AMERICAN CYANAMID COMPANY, FIBERS DIVISION**Acrylic Santa Rosa, FL *Creslan* (staple & tow)**AMERICAN ENKA COMPANY, A PART OF AKZONA, INC.**Nylon 6 Enka, NC, Central, SC & Lowland, TN *Crespet*, *Enka*, *Enkaloft*,
Enkalure, *Enkasheer*, *Enkatron*, *Multisheer*, *Phase 7*, *Softalon*,
Zantrel (yarn, monofil & staple)Polyester Central & Lowland *Encron*, *Encron 8*, *Enka*, *Golden Glow*,
Golden Touch, *Silky Touch*, *Strialme*, *Ultra Touch* (yarn & staple)

Rayon Lowland (staple)

AMERICAN HOECHST CORPORATION, HOECHST FIBERS INDUSTRIES DIVISIONPolyester Spartanburg, SC *Trevera* (yarn & staple), Delaware City, DE
(monofil)**AMETEK INC., SPECIAL FILAMENTS DIVISION***

Nylon 6, 66, 612 & 11 Odenton, MD (monofil)

Polyester Odenton (monofil)

Saran Odenton (monofil)

AVTEX FIBERS INC.

Acetate Meadville, PA (yarn)

Polyester Lewistown, PA *Arlon* (yarn)

Rayon Front Royal, VA (ind yarn & staple)

Vinylon Meadville (staple)

BADISCHE CORPORATIONAcrylic Williamsburg, VA *Zefran* (staple)Nylon 6 Anderson, SC *Zeftron* (yarn & staple)**BERKLEY & CO. INC.***

Nylon 6 Spirit Lake, IA (monofil)

CAMAC CORPORATION*Nylon 6 Bristol, VA *Camulon* (yarn)**CELANESE FIBERS COMPANY, A DIVISION OF CELANESE CORPORATION**Acetate Cumberland, MD (Amicelle), Rock Hill, SC (Celriver) & Narrows,
VA (Celco) (yarn, staple & tow)

Triacetate Cumberland & Rock Hill (yarn, staple & tow)

CORTLAND LINE COMPANY

Nylon 6 Cortland, NY (monofil captive)

COURTAULDS NORTH AMERICA INC.Nylon 6 Le Moyne, Mobile County, AL *Courtaulds*, *Sharven* (yarn &
monofil)

Rayon Le Moyne (staple)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)***TEXTILE FIBERS DEPARTMENT***Acrylic Camden, SC & Waynesboro, VA *Orlon* (staple & tow)Fluoro Richmond, VA *Teflon* TFE & FEP fluorocarbon fiber
(yarn, monofil, staple, tow & flock)Nylon 66 Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville,
Richmond & Waynesboro, VA *Antron*, *Cantreco*, *Cordura*,
Du Pont, *Hyten* (yarn, monofil, staple & tow)

Nylon Other Chattanooga (yarn)

Aramid Richmond *Kevlar* (yarn), *Nomex* (yarn, staple & tow)Polyester Kinston & Wilmington, NC, Camden & Charleston, SC and
Chattanooga & Old Hickory, TN *Dacron*, *Hollofil* (yarn, staple,
tow & fiberfill), *Rovemay* (spunbonded), *Sontara* (spunlaced)
Waynesboro *Lyora* (fused multifil or coalesced monofil)**POLYMER PRODUCTS DEPARTMENT**Nylon 6, 66, 612 & Polyester Parkersburg, WV *Dacron*, *Dymetrol*, *Tymox*, *Vylor*
(monofil of 50 denier & coarser)**EASTMAN KODAK COMPANY****CAROLINA EASTMAN COMPANY**Polyester Columbia, SC *Kodol* (yarn & staple)**TENNESSEE EASTMAN COMPANY**

Acetate Kingsport, TN (yarn)

Modacrylic Kingsport *Verel* (staple)Polyester Kingsport *Kodol* (yarn & staple)**FIBER INDUSTRIES, INC. (subsidiary of Celanese Corporation)**Polyester Fayetteville, Salisbury & Shelby, NC and Darlington & Greenville, SC
Angolene, *ECF*, *ESP*, *Fortrel*, *Lambda*, *PolarGuard*, *Seronic*, *Superba*
(yarn, staple, tow & fiberfill)**FIRESTONE FIBERS & TEXTILES COMPANY,****DIVISION OF FIRESTONE TIRE & RUBBER COMPANY**

Nylon 6 Hopewell, VA (yarn & monofil)

Polyester Hopewell (yarn)

GLOBE MANUFACTURING CO.Spandex Fall River, MA & Gastonia, NC *Cleverspan*, *DC 100*, *DC 700*,
Glospan (fused multifil)**THE GOODYEAR TIRE & RUBBER COMPANY, CHEMICAL DIVISION**

Polyester Scottsboro, AL & Point Pleasant, WV (yarn captive)

GUILFORD MILLS, GAINESVILLE DIVISION

Nylon 6 Gainesville, GA (yarn & monofil captive)

HANOVER MILLS, INCORPORATED (subsidiary of Falk Fibers & Fabrics, Inc.)Nylon 6 Vanceville, NC *Hanover* (yarn & monofil)

U.S.A. (Continued)

JOHNSON FILAMENTS, INC. (subsidiary of JWI Ltd.)

Nylon 6 66 Williston, VT (monofil)

Polyester Williston (monofil)

KAYSER ROTH CORPORATION, YARN PROCESSING DIVISION

Nylon 66 Creedmoor, NC (yam - captive)

MEYERS FIBERS, INC. - See Tolaram Fibers, Inc.

MONOFILAMENTS, INC.

Nylon 6 66 Waynesboro, VA (monofil)

Polycarbonate Waynesboro (monofil)

Polyester Waynesboro (monofil)

MONSANTO COMPANY

MONSANTO POLYMERS AND RESINS COMPANY

Nylon 66 Pensacola, FL *AstroTurf* (recreational & landscaping surfaces)

MONSANTO TEXTILES COMPANY

Acrylic Decatur, AL *Acrlan, Bi Loft, Fi Lana, Pa Qel, Remember, So Lara* (staple & tow)Modacrylic Decatur *SEF* (staple & tow)Nylon 66 Pensacola, FL & Greenwood, SC *Blue C, Cadon, Cumuloft, Utron, Utron Z* (yam, monofil & staple), *Cerex* (spunbonded)Polyester Decatur *Blue C* (staple)

NORTH AMERICAN RAYON CORPORATION

Rayon Elizabethton, TN (ind & reg yam and tow)

OMEGA YARNS, INC. (subsidiary of Tietex Corp.)

Polyester Ashboro, NC (yam)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION

Nylon 6 66 Columbia, SC *Sooflex, Superflex, S₃, Wonderthread* (monofil)Polyester Columbia *Shakespeare Wonderthread* (monofil)

STAR FIBERS, INC.

Nylon 6 Edgefield, SC *Starbrite* (staple)

TOLARAM FIBERS, INC. (formerly Meyers Fibers, Inc.)

Polyester Ansonville, NC (yam)

UNIROYAL TEXTILE, DIVISION OF UNIROYAL, INC.

Nylon 6 Shelbyville, TN (monofil - captive)

UNIVERSAL POLYMER PRODUCTS CORPORATION

(subsidiary of Falk Fibers & Fabrics, Inc.)

Polyester Fuquay Varina, NC (yam & monofil)

WELLMAN, INC., MAN MADE FIBER DIVISION

Nylon 6 & 66 Johnsonville, SC *Wellon, Wellstrand* (monofil, staple, tow & tops)Polyester Johnsonville *Wellene* (monofil, staple, tow & tops)**OLEFIN FIBER**

ACS INDUSTRIES, INC. Woonsocket, RI (P yam & staple)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT Homer, NY (P monofil)

AMERICAN MANUFACTURING COMPANY

HONESDALE ROPE DIVISION Honesdale, PA (E & P monofil & film)

LAFAYETTE ROPE DIVISION Lafayette, LA *Amco, American, Bondite, Floterape* (E & P monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION Odenton, MD (E & P monofil)

AMOCO FABRICS COMPANY, PATCHOGUE PLYMOUTH DIVISION

Andalusia & Roanoke, AL, Bainbridge, Hazlehurst & Nashville, GA & Afton, VA *Marquesa Lana, Patton, Patton Plus* (P yam, monofil, film & staple)

ARLIN MFG. CO., INC. Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC. Charlotte, NC (P film - captive)

BEMIS COMPANY, INC. St. Louis, MO (P film)

BERKLEY & CO. INC. Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN EXTRUSIONS Anniston, AL *Gold Medal, Poly Autoturne, Poly Macramic, Polylasting, TY-EZ Polytape, Tylon, Tytite* (E & P film)

BRIDON CORDAGE INC. Albert Lea, MN (P film)

CAMAC CORPORATION Bristol, VA (P yam)

CELANESE FIBERS COMPANY - See Mirafi Inc.

CHASE BAG COMPANY Orange, CA & New Orleans, LA (P film)

CHEVRON FIBERS, INC. (a subsidiary of Chevron Chemical Co.)

POLYLOOM PRODUCTS Dayton TN *Polyloom* (P film)

THE COLUMBIAN GROUP, DIVISION OF THE COLUMBIAN ROPE COMPANY

Jefferson, LA & Auburn, NY *Manipro, Poly K, Poly Turine, Polypro 6, Radian Turine* (E & P monofil & film)

CONCORDE FIBERS, INC. Jamestown, SC (P yam)

CROWE ROPE COMPANY Warren, ME *Crowekon* (P monofil)

CROWN ZELLERBACH CORPORATION, NONWOVEN FABRICS DIVISION

Camas, WA *Fibretek* (P spunbonded)

E. I. DU PONT DE NEMOURS & COMPANY (INC.), TEXTILE FIBERS DEPT.

Old Hickory, TN & Richmond, VA *Tyvar* (P spunbonded), *Tyvek* (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC. Central Falls, RI (P film)

ENSIGN BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION

Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS, INDUSTRIAL TEXTILES DIVISION

Kingman, KS & Summerville, SC (P monofil & film)

FNT INDUSTRIES INC. Menominee, MI (E monofil)

FIBERS & FABRICS OF GEORGIA, INC. (subsidiary of Georgia Synthetics, Inc.)

Elberton, GA (E & P yam, monofil & film)

FIBERS SOUTH, INC. Trussville, AL (E & P film & monofil)

FIBRON CORPORATION OF TENNESSEE Chattanooga, TN *Fibri Cord,**Fibri Knit, Fibrilawn, Fibrilon* (P film)

FILAMENT FIBER TECHNOLOGY INCORPORATED Lakewood, NJ (P yam)

GENERAL FIBERS & FABRICS, INC. LaGrange, GA (P film)

GEORGIA SYNTHETICS, INC. Elberton, GA (E & P yam, monofil & film)

GLADDING CORP., CORDAGE DIVISION South Otselic, NY (P monofil)

HERCULES INCORPORATED, FIBERS MARKETING DIVISION Oxford, GA

Herculon (P yam & staple)

THE HOOVEN & ALLISON COMPANY Xenia, OH (P film)

JACKSON ROPE COMPANY, DIVISION OF TUBBS CORDAGE COMPANY

Austin, TX (P monofil & film)

KELLER INDUSTRIES, INC. Swainsboro, GA (P monofil - captive)

KIMBERLY CLARK CORPORATION Corinth, MS, Balfour, NC & Neenah, WI

Accord, Duraguard, Evolution (P spunbonded), *Cyclean* (P spunbonded meltblown laminate), *Evolution II, Safeguard CPF* (P spunbonded meltblown & P meltblown)LAMBETH CORPORATION New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY (a Consolidated Foods Company) Burlington, NC (E monofil - captive)

LORETEX, DIVISION OF OIVIND LORENTZEN, INC. Guilderland Center, NY (E film - captive)

MIRAFI INC. (formerly Celanese Fibers Company) (subsidiary of Dominion Textiles) Moultrie, GA (P film - captive)

NSI, INC. Soperton, GA (P film - captive)

THE OSTERNECK COMPANY Lumberton, NC (P film)

PHILLIPS FIBERS CORPORATION (subsidiary of Phillips Petroleum Company)

Rocky Mount, NC & Spartanburg, SC *Marruss* (P yam, staple & tow)

SARLON INDUSTRIES, INC. Miami, FL (P monofil)

SHUFORD MILLS, INC. Hickory, NC (P film)

SUNSHINE CORDAGE CORPORATION Miami, FL *Cala Line, Oletex, Poncar, Sunshine, Sunylon, Sunypool* (E & P monofil)

SYNTHETIC INDUSTRIES Chickamauga, GA (P film - captive)

SYNTHETIC INDUSTRIES (TEXAS), INC. Houston, TX (E & P film)

TUBBS CORDAGE COMPANY Orange, CA *Lokette* (P monofil & film)

Also see Jackson Rope Company

TWINE PRODUCTS CORPORATION New Orleans, LA (P film)

UNITED STATES ROPE COMPANY Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC. Beverly, NJ (E & P monofil)

WALTRICH PLASTIC CORPORATION Tennent, NJ (P monofil)

U.S.A. (Continued)**OLEFIN FIBER (Continued)**

WAYN-TEX, INC. Waynesboro, VA *Beamette, Waynfil* (E & P yarn & monofil & P film)

WELLINGTON PURITAN MILLS (MONTAIR DIV.) Pilot Mountain, NC *Pur Ty, Welltite* (E & P monofil and film)

WELLINGTON SYNTHETIC FIBRES, INC. Leesville & Summerville, SC (P yarn and monofil)

The following companies are also producing a variety of textile products from olefin: CONWED CORP. *Conwed Plastic Netting* (P embossed film for netting); E. I. DU PONT DE NEMOURS & COMPANY (INC.) (E & P embossed film for netting); HERCULES INCORPORATED, POLYMERS DIVISION *Delnet* (E embossed film for netting); NALLE INC. (P embossed film for netting); RIEGEL PRODUCTS CORPORATION *Prolyweb* (P meltblown); and THE 3M COMPANY (P spunbonded).

TEXTILE GLASS FIBER

CERTAINTED CORPORATION, FIBERGLASS REINFORCEMENTS DIVISION
Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

F.G.I. FIBERS, INC.
Amsterdam, NY (roving & chopped)

INDY TECHNICAL CENTER
Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving, strand & mat)

MANVILLE CORPORATION (formerly Johns Manville Sales Corporation, Filtration & Minerals Division) Waterville, OH & Etowah, TN *Chop Pak* (chopped strand, mat & sliver)

NICOFIBERS INC.
Shawnee, OH *Conformat, Consurmat, Surmat* (mat)

OWENS CORNING FIBERGLAS CORPORATION
Huntingdon, PA, Ashton, RI, Aiken & Anderson, SC, Jackson, TN & Amarillo, TX *Activa, Aralon, Beta, Bi-Ply, Fiberglass, S-Glass, S-2 Glass* (yarn, roving, spun roving, woven roving, mat, chopped, milled and staple yarn & sliver)

PPG INDUSTRIES, INC., FIBER GLASS DIVISION
Lexington & Shelby, NC *Azdel* (yarn, roving, woven roving, mat, chopped strand & rubber reinforcements)

REICHHOLD CHEMICALS, INC.
CHEMGLASS DIVISION Irwindale, CA *Chemglass* (roving, chopped & milled)
FIBERGLASS DIVISION Nashville, TN (roving, woven roving, mat, chopped & milled)
GLASS FIBER DIVISION Bremen, OH *Modiglass* (mat)

URUGUAY

HILADOS SINTETICOS S.A. (HISISA)
Nylon 66 Estacion Manga, Montevideo *Hisilon* (yarn)

POLIMEROS URUGUAYOS S.A.
Polyester San José, San José (staple)

SINTETICOS SLOWAK S.A.
Nylon 6 Montevideo *Crofil* (yarn & monofil)
Polyester Montevideo *Terpol* (yarn)

URACE S.A. (affiliate of Sudamtex de Uruguay S.A.)
Acetate Colonia (yarn)

OLEFIN FIBER

ARYN S.A. Montevideo (E monofil)

CINCA S.A. Montevideo (E film)

ELABORADORA DE ARPILLERA SINTETICA S.A. (E film)

UDINE S.A. (E monofil)

VENEZUELA

C.A. INVERSIONES ARAGUA
Nylon 6 Maracay *Sudalon* (yarn)

CELANESE VENEZOLANA S.A.
Acetate Valencia (yarn)
Polyester Valencia *Fortrel* (yarn & staple)

DOUGHERTY CORDAGE MILL
Nylon 6 Caracas (yarn)

HILADOS FLEXILON
Nylon 6 Caracas (yarn)
Polyester Caracas (yarn)

KURAVEN CO., LTD.

Polyester Maracay *Venecron* (staple)

SUDAMTEX DE VENEZUELA, C.A.
Polyester Maracay (yarn & staple)

VENASETA C.A.
Acetate Maracay (yarn)

YUGOSLAVIA

HEMTEKS
Polyester Skopje, Macedonia *Maklen* (yarn & staple)

INCEL FABRIKA CELULOZE I VISKOZE
Polyester Banja Luka, Bosnia i Hercegovina *Beltra* (yarn)
Rayon Banja Luka (staple)

INDUSTRIJA SINTETICKIH VLAKANA (PROGRES)
Nylon 6 Prizren, Kosovo Mitohijan *Supralon* (yarn)
Polyester Istok, Kosovo Mitohijan & Prizren *Prizrent* (yarn)

KEMICNA TOVARNA MOSTE
Nylon 6 Ljubljana, Slovenia *Yulon* (yarn)

ORGANSKO HEMIJSKA INDUSTRIJA SKOPJE (OHIS)
Acrylic Skopje, Macedonia *Makrolan, Malon* (staple)

TEKSTILNA INDUSTRIJA "ZELE VELJKOVIC"
Nylon 6 Leskovac (yarn & staple)

VARAZDINSKI TEKSTILNI KOMBINAT (VARTEKS)
Polyester Varazdin (staple)

VISKOZA
Rayon Loznica, Serbia (ind & reg yarn & staple)

OLEFIN FIBER

HEMIJSKA INDUSTRIJA U OSNIVANJU Belgrade (P staple)

TEXTILE GLASS FIBER

GOSTIVAR STAKLARA
Staklara (roving & mat)

WORLD MAN-MADE FIBER PRODUCER AFFILIATIONS & PERCENTAGE OF CAPITAL OWNERSHIP

Licensing and royalty agreements are not taken into account. The ownership of companies other than man made fiber producers is not listed, e.g., weaving mills, chemical producers, etc.

For each country, the percentage following the first named producer is the portion owned by the captioned company; the remainder of the entry shows other ownership. For example, Akzo N.V. owns 25% of Cyanenka of Spain, while American Cyanamid owns 40% and La Seda de Barcelona owns 35%. Also note that Akzo owns 57% of La Seda de Barcelona.

AKZO N.V. (NETHERLANDS)

Austria	Enka Austria 93%
Brazil	Companhia Bahiana de Fibras 45%; others 55%
	Polyenka 51%; others 49%
Colombia	Enka de Colombia 48%; others 52%
Ecuador	Enkador 48%; others 52%
Germany	Enka 97%; public 3%
India	Century Enka 39%; others 61%
Ireland	See British Enkalon under United Kingdom below
Mexico	Fibras Quimicas 40%; Alfa group 60%
Netherlands	Enka 100%
	Silenka 33 1/3%; PPG Industries 33 1/3%; others 33 1/3%
Spain	Cyanenka 25%; American Cyanamid 40%; La Seda 35%
	La Seda 57%; others 43%
U.K.	British Enkalon 84%; public 16%. British Enkalon also owns 40% of Wellman International Ltd., Ireland
U.S.A.	American Enka 66%; public 34%

AMERICAN CYANAMID COMPANY (U.S.A.)

Spain	Cyanenka 40%; Akzo N.V. 25%; La Seda 35%
U.S.A.	Fibers Division 100%

AMOCO CHEMICALS CORPORATION (U.S.A.)

Australia	Amoco Fabrics Co., Patchogue Plymouth Div. 100%
Canada	Amoco Fabrics Co. 100%
Germany, F.R.	Amoco Fabrics Co., Patchogue Plymouth Div. 100%
U.K.	Amoco Fabrics 100%
U.S.A.	Amoco Fabrics Co., Patchogue Plymouth Div. 100%

BASF AMERICA CORPORATION (U.S.A.)

BASF America owns 100% of Badische Corp. (U.S.A.), which in turn owns 100% of Badische Canada Limited.

ASAHI CHEMICAL INDUSTRY CO. LTD. (JAPAN)

India	Baroda Rayon Corp. 1%; local interests 89%; others 10%
Indonesia	P.T. Indonesia Asahi Chemical 69%; others 30%; local interests 1%
Ireland	Asahi Synthetic Fibres (Ireland) 85%; others 15%
Japan	Asahi Chemical 100%
	Asahi PPG 50%; PPG Industries 50%
Korea, Rep.	Tong Yang Polyester 50%; Tong Yang Nylon 50%

BAYER A.G. (WEST GERMANY)

Belgium	N.V. Bayer 100%
Germany, F.R.	Bayer A.G. 100%
Iran	Sheilat Sahami Aliaf 50%; Afshar Shargh & others 50%
Peru	Bayer Industrial S.A. 60%

CELANESE CORPORATION (U.S.A.)

Belgium	Amcel Europe 100%
Brazil	Celanese do Brasil - Fibras Químicas 100%
	Celanese do Brasil Nordeste 100%
Canada	Celanese Canada Inc. 56%
	Celanese Canada (Millhaven) Inc. 56%
Mexico	Celanese Mexicana 40%; public 60%
Peru	Rayon y Celanese Peruana 33%
U.S.A.	Celanese Fibers Company 100%
	Fiber Industries 62½%; ICI Fibres (U.K.) 37½%

COURTAULDS, PLC (U.K.)

Canada	Courtaulds (Canada) Inc. 100%
France	Courtaulds S.A. 100%
Ireland	Lirelle (Ireland) Ltd. 100%
Italy	Fin Novaceta S.p.A. 50%; SNIA 50%
Spain	INACSA 12%; public 88%
U.K.	Courtaulds Acetate PLC 100%
	Courtaulds, PLC 100%
U.S.A.	Courtaulds North America Inc. 100%

E. I. DU PONT DE NEMOURS & COMPANY (U.S.A.)

Argentina	Ducilo 83%; Bunge & Born 17%
Brazil	Du Pont do Brasil 100%
Canada	Du Pont Canada 75%; public 25%
Germany, F.R.	Du Pont de Nemours (Deutschland) 100%
Japan	Toyo Products 50%; Toray Industries 50%
Luxembourg	Du Pont Fibres 100%
Mexico	Nylon de Mexico 40%; Alfa group 51%; public 9%
Netherlands	Du Pont de Nemours (Nederland) 100%
U.K.	Du Pont (U.K.) 100%
U.S.A.	Textile Fibers Department 100%
	Polymer Products Department 100%

FIRESTONE TIRE & RUBBER COMPANY (U.S.A.)

Canada	Firestone Textiles Co. 100%
U.S.A.	Firestone Fibers & Textiles 100%

HARBOUR GROUP LTD. (U.S.A.)

U.K.	Synthetic Industries (Ireland) PLC 100%
U.S.A.	Fibron Corp. of Tennessee 100%
	Synthetic Industries, Inc. 100%
	Synthetic Industries (Texas), Inc. 100%

HERCULES INCORPORATED (U.S.A.)

Italy	Neofil 50%; Montefibre 50%
U.S.A.	Hercules 100%

HOECHST A.G. (WEST GERMANY)

Austria	Austria Faserwerke: Hoechst Austria 51%; Lenzing 49%
Brazil	Cia. Brasileira de Sintéticos 60%
Germany, F.R.	Hoechst 100% - Zehlendorf 91%
South Africa	Hoechst South Africa 100%
U.K.	Hoechst Fibre Industries 100%
U.S.A.	American Hoechst 100%

KURARAY CO., LTD. (JAPAN)

Indonesia	Kuma Fiber 40%; others 60%
Japan	Kuraray 100%
Venezuela	Kuraven 39%; others 61%

IMPERIAL CHEMICAL INDUSTRIES LIMITED (U.K.)

ICI owns 62% of ICI Australia Ltd., which in turn owns Fibremakers Ltd.	
of Australia.	
Australia	Fibremakers Ltd. - 100% ICI Australia
Germany, F.R.	ICI Europa Fibres G.m.b.H. 100%
India	Chemicals & Fibres of India Ltd. 55%
Pakistan	ICI Pakistan Manufacturers 70%
Portugal	Finicisa Fibras 50%; Francisco Fino Ltd. 50%
South Africa	S.A. Nylon Spinners (through AECL Ltd.) 40%
Spain	Nurel S.A. 50%; local interests 50%
U.K.	ICI Fibres 100%
U.S.A.	Fiber Industries 37½%; Celanese Corporation 62½%

MITSUBISHI RAYON (JAPAN)

Japan	Mitsubishi Acetate 100%
	Mitsubishi Rayon 100%
Portugal	FISIPE 5%; Mitsubishi Corp. 11½%; Quimigal 83½%
Taiwan	Tong Hwa 19%; Mitsubishi Corp. 12%; others 69%

MONSANTO COMPANY (U.S.A.)

Germany, F.R.	Monsanto (Deutschland) G.m.b.H. 100%
U.K.	Monsanto Limited 100%
U.S.A.	Monsanto Polymers & Resins Company 100%
	Monsanto Textiles Company 100%

MONTEFIBRE S.p.A. (ITALY)

France	Montefibre France 100%
Italy	Montefibre 50%; Snia Fibre 50%
	Fibra de Tirso 50%; Anic fibre 50%
	Merak 100%
	Neofil 50%; Hercules (U.S.A.) 50%
	Società Industriale Cremonese 50%
Malta	Montefibre Malta 99.9%
Spain	Montefibre Hispania 70%; others 30%

OWENS-CORNING FIBERGLAS CORPORATION (U.S.A.)

Belgium	Owens Corning Fiberglass Europe 100%
Brazil	OCFIBRAS 100%
Canada	Fiberglass Canada 49%; Duplate Canada 49%; local interests 2%
France	Owens Corning Fiberglass France 100%
Japan	Asahi Fiber Glass 28%; Asahi Glass Co., Ltd. 72%
Mexico	Vitro Fibras 40%; Vitro Group 60%
Norway	Norsk Glassfiber 70%; Elkem Spigerverket 30%
Sweden	Scandinavian Glasfiber 40%; Aljmanna Svenska Elektriska 60%
U.S.A.	Owens Corning Fiberglass 100%

PPG INDUSTRIES (U.S.A.)

Netherlands	Silenka 33 1/3%; Akzo N.V. 33 1/3%; others 33 1/3%
U.S.A.	Fiber Glass Division 100%

PILKINGTON BROTHERS (U.K.)

Argentina	VASA 99.7%; Glaverbel Boussois local interests 0.3%
India	Fibreglass Pilkington 50% plus 1 share; Indian interests 50% less 1 share
South Africa	Fibreglass South Africa 24½%; Owens Corning Fiberglass (U.S.A.) 24½%; Plate Glass & Shatterprufe Industries Ltd. 51%
U.K.	Fibreglass PLC 100%

RHONE-POULENC S.A. (FRANCE)

Argentina	Rhodia Argentina Química e Têxteis 100%
Brazil	Rhodia Indústrias Químicas e Têxteis 100%
	Rhodia Nordeste 99%
France	Rhône-Poulenc Textile 99.9%
Germany, F.R.	Deutsche Rhodiadeta 100%
Spain	SAFA 60%
Switzerland	Viscosuisse (through Holva AG) 87%
Thailand	Thai Melon Polyester 40%; others 60%

SAINT-GOBAIN (FRANCE)

France	Saint-Gobain Industries 100%
Germany, F.R.	Gevetex Textilglas 100%
Italy	Vetrorex Italia 100%
Spain	Fibras Minerales 69%; others 31%
U.S.A.	CertainTeed Corp. 54%; others 46%

SNIA FIBRE (ITALY)

Argentina	SNIAFA (through its Luxembourg subsidiary, Sapina) 23%
Brazil	Fiação Brasileira de Rayon 96% (through Sapina)
France	Ets. Nysam 100%
Greece	Vomivcyl 15% (through Sapina)
India	Baroda Rayon 9% (through Sapina)
	South India Viscose 24% (through Sapina)
Ireland	Snia Ireland 80%
Italy	Snia Fibre 100%
	Novaceta 50%; Courtaulds (U.K.) 50%
Spain	SNIACE 25% (through Sapina)

TEIJIN LTD. (JAPAN)

Indonesia	P.T. Tifico 65.8%, Toyo Menka 16½%; local interests 17.7%
Japan	Teijin 100%
Korea, Rep.	Sunkyoung Fibres 11%; local interests 89%
Philippines	Filipinas Synthetic Fiber 34%; others 66%
Taiwan	Hualon Teijin 6%; local interests 94%
Thailand	Teijin Polyester 45%; local interests 55%

TORAY INDUSTRIES (JAPAN)

Brazil	Polynor is owned 16% by Matoray, which in turn is owned 35% by Toray and 65% by IRF Matarazzo.
Indonesia	P.T. Indonesia Toray Synthetics 42%; others 58%
Japan	Toray Industries 100%
	Toray Monofilament 100%
	Toyo Products 50%; Du Pont 50%
Korea, Rep.	Cheil Synthetic Textiles 23½%; Mitsui 6%; local interests 70½%
	Kolon Industries 19.8%; others 80.2%
Malaysia	Penfibre 90%; Textile Alliance 10%
Philippines	Philippine Polyamide 16½%; Itoman 12½%; Toyo Menka 11%; local interests 60%
Taiwan	Shin Kong 6½%; Mitsubishi Corp. 4½%; local interests 89%
Thailand	Toray Nylon Thai 30%; Mitsui 20%; local interests 50%

TUBBS CORDAGE COMPANY (U.S.A.)

Philippines	Manila Cordage 40%
U.S.A.	Tubbs Cordage 100%

WELLMAN, INC. (U.S.A.)

Ireland	Wellman International Ltd. 60%; British Enkalon 40%
U.S.A.	Man-Made Fiber Division 100%

(Continued from page 106)

million pounds.

It should also be noted that, after a 3-quarter decline, shipments of nylon filament yarn to the carpet trades rose to 123.6 million pounds, up 6½% from the fourth quarter 1981 total of 116.1 million pounds.

Analysis of the fiber-by-fiber staple+tow shipments, as compared with the first quarter of 1981, yields the following: Shipments of polyester staple+tow fell 11%, to 437.3 million pounds; nylon staple+tow shipments, at 141.9 million pounds, fell 31%; acrylic+modacrylic staple+tow shipments fell 17%, to 108.1 million pounds; shipments of olefin+vinyon staple+tow, at 29.3 million pounds, fell 8% and shipments of rayon staple+tow fell 23%, to 77.6 million pounds.

As was the case with shipments of yarn+monofilament, those of nylon staple+tow to the carpet trades should be noted as having ended a 2-quarter decline, up 22% from the fourth quarter 1981 figure of 102.7 million pounds, to 125.1 million pounds.

Similarly, after a 2-quarter decline, shipments of rayon staple+tow to the nonwovens industry increased 15% over the fourth quarter 1981 figure of 27.8 million pounds, to 32.0 million pounds.

NUMBER OF MAN-MADE FIBER PRODUCING PLANTS (EXCEPT OLEFIN)*

COUNTRY & REGION	CELL		NON-CELLULOSIC					TEXTILE GLASS	GRAND TOTAL
	ACE-TATE ^a	RAYON	ACRYLIC ^b	NYLON ^c	POLY-ESTER	OTHER ^d	TOTAL		
WEST EUROPE									
AUSTRIA		2			1	1	2		4
BELGIUM LUX.	1	2	1	3	1		5	2	10
FINLAND		1		1			1	1	3
FRANCE		3	2	7	4	1	14	2	19
GERMANY, F.R.	1	4	3	12	12	4	31	3	39
GREECE		1	1	2	2		5		6
IRELAND (EIRE)			1	2	2		5		5
ITALY (MALTA)	3	5	6	19	10	1	36	2	46
NETHERLANDS		2		2	2	1	5	1	8
NORWAY		1						1	2
PORTUGAL		2	1	1	1		3	1	6
SPAIN	1	4	2	6	5		13	1	19
SWEDEN		1		1			1	1	3
SWITZERLAND				3	2		5		5
TURKEY		1	2	3	7		12	1	14
UNITED KINGDOM	3	2	3	6	5	4	18	5	28
TOTAL W. EUROPE	9	31	22	68	54	12	156	21	217
EAST EUROPE									
BULGARIA		1	1	1			3		4
CZECHOSLOVAKIA		5		3	2		5	2	12
GERMAN DEM. REP.		8	2	3	2	1	8	1	17
HUNGARY		1	1	1			2		3
POLAND		6	1	1	2	2	6	2	13
ROMANIA		2	1	1	2		4		6
YUGOSLAVIA		2	1	2	5		8	1	11
E. EUROPE ABOVE	25	7	12	14	3	36	6	67	
AMERICAS									
ARGENTINA	1	1	1	8	5	1	15	1	18
BOLIVIA					1		1		1
BRAZIL	1	4	2	19	11	1	33	1	39
CANADA	1	1		3	2	1	6	1	9
CHILE		2		2	3		5		7
COLOMBIA	1			3	4		7	1	9
COSTA RICA					1		1		1
CUBA		1							1
ECUADOR					3		3		3
GUATEMALA				1			1		1
MEXICO	1	2	3	9	9	2	23	1	27
PERU	1		1	3	4		8		9
U.S.A.	5	4	6	31	33	8	78	17	104
URUGUAY	1			2	2		4		5
VENEZUELA	2			3	4		7		9
TOTAL AMERICAS	14	15	13	84	82	13	192	22	243
AFRICA, ASIA & OCEANIA									
AUSTRALIA				3	2	1	6	1	7
BANGLADESH		1		1			1		2
EGYPT		2		1	2		3		5
INDIA	1	12	2	12	14		28	2	43
INDONESIA		3		3	8		11		14
IRAN			1	1	1		3		3
IRAQ		1							1
ISRAEL			1	1	1		3		3
JAPAN	2	15	7	12	22	18	59	15	91
KENYA				1	2		3		3
KOREA, REP. OF	1	1	2	6	13	1	22		24
MALAYSIA					1		1		1
NIGERIA					1		1		1
PAKISTAN	1			3	2		5		6
PHILIPPINES				2	2		4		4
SOUTH AFRICA				1	5		6	1	7
SRI LANKA				1			1		1
TAIWAN		2	3	15	18		36		38
THAILAND		1		3	4		7		8
TOTAL A, A & O	5	38	16	66	98	20	200	19	262
WORLD TOTAL*	28	109	58	230	248	48	584	68	789

* Data for People's Republic of China, North Korea & USSR are not included here.

a. Acetate includes triacetate.

b. Acrylic includes modacrylic.

c. Nylon includes aramid.

d. All Other includes 1 azlon, 2 biconstituent, 4 fluorocarbon, 1 polycarbonate, 1 polyethyl, 1 polyesteramide, 1 polyvinylfluoride, 1 promix, 7 saran, 18 spandex or elastomer, 4 vinyl and 7 vinyon plants, for a total of 48 plants producing these other fibers.

FILAMENT YARN DOMESTIC SHIPMENTS^a

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
		1978	1979	1980	1981	1981				1982			
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE	(N) NYLON+ARAMID	(P) POLYESTER	(O) OLEFIN								
HOSIERY ^b	N	99.0	106.3	106.3	107.0	27.2	27.2	27.7	24.9	22.4			
OTHER CIRCULAR KNIT ^c	N	65.5	58.9	56.6	48.2	12.3	13.6	11.4	10.9	8.4			
	P	635.5	615.4	495.7	345.6	95.4	97.3	83.9	69.0	59.9			
	A	1.9	4.5	3.2	4.8	0.9	2.1	1.3	0.5	0.4			
FLAT KNIT	A	138.3	146.9	144.9	104.7	27.6	37.2	23.5	16.4	20.2			
	N	196.1	202.6	176.3	163.2	43.3	44.5	37.6	37.8	32.8			
	P	81.7	89.0	83.8	98.4	25.7	25.1	25.1	22.5	20.6			
CARPET FACE	N	677.8	732.5	714.5	633.6	184.0	186.9	146.6	116.1	123.6			
	O	78.9	85.3	89.5	89.5	21.5	22.7	22.0	23.3	23.4			
CARPET BACKING ^d	O	213.7	220.7	197.8	195.3	52.7	49.9	48.0	44.7	45.7			
OTHER BROAD WOVEN ^e	A	125.9	129.2	110.5	104.7	22.8	27.7	29.6	24.6	22.3			
	N	95.0	102.7	94.3	89.2	22.0	21.9	21.6	23.7	21.5			
	P	411.5	387.2	405.5	440.2	100.8	138.4	115.6	85.4	78.4			
	O	158.7	171.4	186.3	200.7	50.3	50.3	51.5	48.6	42.8			
NARROW WOVEN ^f	A	7.0	5.9	8.7	8.5	1.5	2.2	2.2	2.6	0.9			
	N	40.6	37.2	31.4	34.0	9.1	7.1	9.2	8.6	8.2			
	P	29.1	30.5	28.1	28.1	6.4	7.5	7.3	6.9	5.4			
	O	11.1	11.8	12.3	12.6	3.2	3.2	3.1	3.1	2.8			
TIRES, INCL CHAFER	N	267.6	285.3	209.2	204.7	51.5	52.7	52.6	47.9	42.1			
	P	253.4	227.4	161.0	174.8	43.3	44.1	46.6	40.8	43.7			
OTHER RUBBER INDUSTRY ^g	N	25.7	28.7	22.3	25.7	7.2	6.4	5.5	6.6	6.6			
	P	32.0	35.8	30.2	35.1	7.4	8.1	9.5	10.1	8.4			
ROPE, CORDAGE & FISHLINE	N	33.4	38.2	33.0	30.6	8.2	7.9	8.2	6.3	7.1			
	P	10.6	13.6	13.1	15.8	4.6	3.7	3.7	3.8	2.9			
	O	82.4	95.3	84.4	92.1	28.5	22.9	18.9	21.8	23.2			
ALL OTHER ^h	A	1.5	1.9	1.9	3.6	0.6	0.7	1.0	1.3	1.1			
	N	34.7	38.9	95.0	68.1	15.7	17.9	20.0	14.5	11.2			
	P	53.8	126.2	146.0	292.0	70.5	68.3	73.1	80.1	77.9			
	O	34.9	39.7	41.4	38.1	8.1	9.6	11.5	8.9	8.9			
TOTAL DOMESTIC ABOVE	A	274.6	288.4	269.2	226.3	53.4	69.9	57.6	45.4	44.9			
	N	1539.1	1631.3	1538.9	1404.3	380.5	386.1	340.4	297.3	283.9			
	P	1507.6	1525.1	1363.4	1430.0	354.1	392.5	364.8	318.6	297.2			
	O	579.7	624.2	611.7	628.3	164.3	158.6	155.0	150.4	146.8			
TOTAL DOMESTIC ABOVE		3901.0	4069.0	3783.2	3688.9	952.3	1007.1	917.8	811.7	772.8			
ALSO DIVIDED AS													
APPAREL		1671.2	1604.5	1530.4	1533.6	388.4	437.9	378.5	328.8	306.4			
HOME FURNISHINGS		1171.9	1274.6	1212.7	1128.7	308.6	313.3	273.3	233.5	235.2			
INDUSTRIAL		1057.9	1189.9	1040.1	1026.6	255.3	255.9	266.0	249.4	231.2			
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) ⁱ													
ACETATE		1.3	+	0	0	0	0	0	0	0			
NYLON		161.6	166.8	167.4	159.6	40.9	42.3	39.7	36.7	30.9			
POLYESTER		1018.7	1015.3	942.0	991.3	248.3	277.5	251.0	214.5	198.1			
OLEFIN		52.3	46.5	40.9	33.5	9.7	8.9	8.4	6.5	7.6			

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only.

i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and/or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

i. These poundages are included in the Total Domestic area above.

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA								
		1978	1979	1980	1981	1981				1982				
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q	
		(R) RAYON	(N) NYLON+ARAMID	(A) ACRYLIC+MODACRYLIC	(P) POLYESTER	(O) OLEFIN								
HOSIERY, SWEATERS & CRAFT YARNS ^a	A	241.8	238.8	275.7	255.6	63.2	70.6	67.2	54.6	54.7				
	NPR	15.0	21.3	11.5	8.9	2.2	1.9	2.3	2.5	2.0				
PILE FABRICS ^b	A	82.4	65.1	60.4	44.7	14.8	14.3	8.8	6.8	10.3				
	P	15.1	17.8	18.3	14.9	3.6	4.5	3.5	3.3	3.9				
OTHER CIRCULAR+FLAT KNIT ^c	R	10.8	11.7	9.8	10.9	2.7	3.3	2.6	2.3	2.0				
	A	93.1	98.8	125.0	91.6	24.0	26.2	23.3	18.1	24.4				
	P	223.7	278.1	296.3	300.7	77.7	78.7	78.2	66.1	70.9				
BLANKETS ^b	A	55.2	45.5	42.2	28.1	7.6	6.2	6.4	7.9	4.7				
	P	14.9	13.2	17.3	14.8	3.2	4.1	3.1	4.4	2.1				
OTHER BROAD WOVEN	R	245.9	233.2	201.6	224.7	56.5	58.2	57.6	52.4	38.5				
	N	52.6	59.2	53.0	52.4	12.4	14.2	13.2	12.6	11.6				
	A	28.6	42.1	42.3	33.0	10.0	8.5	7.1	7.4	5.7				
	P	1114.7	1171.0	1194.6	1107.0	269.9	290.8	284.2	262.1	232.2				
	O	10.6	17.0	17.3	17.1	5.0	5.7	2.9	3.5	3.7				
CARPET FACE YARNS	R	+	+	+	0.3	+	+	0.2	0.1	+				
	N	798.5	828.0	631.5	617.4	185.7	192.7	136.3	102.7	125.1				
	A	62.8	48.1			Included in All Other								
	P	200.8	192.4	119.9	124.0	27.0	37.6	29.2	30.2	24.6				
	O	46.0	64.7	61.6	67.5	16.1	17.7	17.3	16.4	17.0				
FIBERFILL ^d	P	198.2	239.6	205.1	226.7	57.1	54.0	59.0	56.6	49.0				
	FLOCK	NP	8.2	10.7	10.8	13.0	3.8	4.2	2.7	2.3	2.1			
		R	4.7	5.1	5.1	5.6	0.8	1.3	2.3	1.2	0.7			
NONWOVENS ^{e,f}	R	166.2	160.3	147.3	124.6	32.6	34.9	29.3	27.8	32.0				
	N	4.1	3.8	3.2	3.5	1.1	1.0	0.8	0.6	1.1				
	P	98.5	153.6	166.6	149.3	36.1	37.8	35.8	39.6	35.0				
	VINYON+O		28.6	36.7	34.6	42.7	9.6	11.3	11.1	10.7	7.4			
ALL OTHER	R	29.5	30.9	26.2	29.1	7.1	6.5	8.4	7.1	4.2				
	N	11.1	10.8	12.2	10.3	2.3	3.8	2.2	2.0	1.8				
	A	7.7	8.2	39.7	41.1	10.6	11.2	10.7	8.6	8.3				
	P	80.7	49.3	42.6	60.6	16.4	16.8	12.7	14.7	18.0				
	VINYON+O	4.8	0.9	1.5	4.7	1.2	0.8	0.9	1.8	1.2				
TOTAL DOMESTIC ABOVE	R	459.2	442.4	390.7	396.9	100.2	104.5	100.7	91.5	77.6				
	N	876.4	913.2	711.2	696.4	204.8	215.9	155.4	120.3	141.9				
	A	571.6	546.6	585.3	494.1	130.2	137.0	123.5	103.4	108.1				
	P	1967.5	2134.4	2071.0	2005.4	493.2	525.9	507.5	478.8	437.3				
	VINYON+O	90.0	119.3	115.0	132.0	31.9	35.5	32.2	32.4	29.3				
TOTAL DOMESTIC ABOVE		3964.7	4155.9	3873.2	3724.8	960.3	1018.8	919.3	826.4	794.2				
ALSO DIVIDED AS														
APPAREL		1493.4	1548.6	1632.9	1487.5	366.0	397.9	386.8	336.8	328.5				
HOME FURNISHINGS		1714.8	1759.1	1478.0	1442.9	394.7	415.9	334.0	298.3	287.3				
INDUSTRIAL		756.5	848.2	762.3	794.4	199.6	205.0	198.5	191.3	178.4				

a. Olefin poundages are included in All Other.

b. Rayon and nylon poundages are included in All Other.

c. Nylon poundages are included in All Other.

d. Rayon and acrylic poundages are included in All Other.

e. Wet & dry laid and needled batts only.

f. Acrylic poundages are included in All Other.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEM & COUNTRY	1982						4 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE YARN, MONOFIL & STRIPS								
MEXICO	155	76	157	75			463	444
AUSTRIA	0	20	0	451			471	21
BELGIUM	11	0	0	23			34	75
GERMANY, FED. REP. OF	502	275	218	250			1245	1287
NETHERLANDS	86	77	17	59			239	1455
SPAIN	40	81	46	47			214	142
JAPAN	20	42	36	1			99	64
ALL OTHER COUNTRIES ^a	47	17	28	110			202	512
TOTAL R+A YARN	861	588	502	1016			2967	4000
RAYON+ACETATE STAPLE+TOW								
CANADA	155	167	191	129			642	1830
AUSTRIA	505	40	441	401			1487	1313
FRANCE	1	52	2	0			55	183
GERMANY, FED. REP. OF	42	44	43	0			129	85
SWEDEN	464	0	871	189			1524	750
UNITED KINGDOM	117	2	108	69			296	466
AUSTRALIA	153	0	0	0			153	0
JAPAN	149	24	134	118			425	429
ALL OTHER COUNTRIES ^b	0	80	1	44			125	12
TOTAL R+A STAPLE	1686	409	1791	950			4836	5068
NON-CELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	295	156	101	444			996	731
COSTA RICA	117	27	0	0			144	0
FRANCE	128	114	79	106			427	637
GERMANY, FED. REP. OF	581	362	295	372			1610	1414
ITALY	24	2	175	1			202	239
UNITED KINGDOM	67	48	38	43			196	211
JAPAN	453	661	463	450			2027	2104
ALL OTHER COUNTRIES ^c	18	8	29	26			81	202
TOTAL N.C. YARN	1683	1378	1180	1442			5683	5538
NON-CELLULOSIC STAPLE+TOW								
CANADA	439	310	864	219			1832	1658
MEXICO	177	27	57	79			340	825
BELGIUM	29	31	1	12			73	282
FRANCE	219	194	444	308			1165	1547
GERMANY, FED. REP. OF	730	752	975	725			3182	6362
IRELAND	0	39	39	77			155	56
ITALY	58	23	153	115			349	1859
NETHERLANDS	141	89	58	43			331	163
ROMANIA	50	106	29	219			404	216
UNITED KINGDOM	195	250	259	238			942	1209
JAPAN	588	461	510	401			1960	2023
TAIWAN	616	194	436	583			1829	2532
ALL OTHER COUNTRIES ^d	16	5	1	17			39	111
TOTAL N.C. STAPLE	3258	2481	3826	3036			12601	18843

Other countries supplying 1982 poundages are:

a. Brazil 55, Canada 15, France 44, Italy 8 & Rep. of Korea 80.

b. Finland 80, German Dem. Rep. 44 & Mexico 1.

c. Austria 9, Belgium 22, Ireland 1, Israel 1, Rep.

of Korea 7, Mexico 4, Netherlands 18, Romania 1, Sweden 6 & Switzerland 12.

d. Austria 2, German Dem. Rep. 15, Hong Kong 1, Israel 1 & Switzerland 20.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1982						4 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1982	1981
RAYON+ACETATE									
YARN - SINGLES									
TEXTURED	310.0106 & .0206	5	0	28	35			68	253
OTHER	310.0130 & .0230 ^a	856	586	474	981			2897	3744
MONOFILAMENTS	309.0310 & .0610	0	2	0	0			2	3
STRIPS, $\frac{1}{2}$ LB & UNDER	309.2000 ^a	0	0	0	0			0	0
SUBTOTAL ABOVE		861	588	502	1016			2967	4000
STAPLE	309.4320 & .4325	1510	409	1623	853			4395	4447
GROUPE FILAMENTS	309.3010 & .3110	176		168	97			441	621
SUBTOTAL ABOVE		1686	409	1791	950			4836	5068
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	0	0	64	0			64	81
NON-CELLULOSIC FIBERS									
YARN - SINGLES									
TEXTURED NYLON	310.0109 & .0209	423	174	125	210			932	1215
POLYESTER	310.0110 & .0210	231	43	7	3			284	69
OTHER	310.0114 & .0214	32	26	69	361			488	98
OTHER NYLON	310.0149 & .0249	111	211	278	99			607	1398
POLYESTER	310.0150 & .0250	551	691	368	441			2051	1220
OTHER	310.0170 & .0270 ^b	164	81	140	162			547	654
MONOFILAMENTS	309.0200 & .0330 ^c	140	139	157	145			581	815
STRIPS, OVER $\frac{1}{2}$ LB	309.2100 & .2500 ^a	31	13	36	21			101	69
SUBTOTAL ABOVE		1683	1378	1180	1442			5683	5538
STAPLE NYLON		392	209	400	316			1317	7442
POLYESTER	309.4342	487	517	933	577			2514	1210
ACRYLIC	309.4345	526	474	962	607			2569	4771
OLEFIN	309.4346	1	30	1	33			65	310
OTHER	309.4355	899	292	581	653			2425	3191
GROUPE FILAMENTS									
NYLON	309.3030 & .3130	460	530	345	565			1900	323
POLYESTER	309.3040 & .3140	0	0	17	1			18	42
ACRYLIC	309.3050 & .3150	297	376	553	246			1472	905
OTHER	309.3065 & .3165	196	53	34	38			321	649
SUBTOTAL ABOVE		3258	2481	3826	3036			12601	18843
WASTE, NOT ADVANCED - NYLON	309.6625	1882	1647	1838	2315			7682	7720
POLYESTER	309.6630	1398	775	1580	608			4361	5433
ACRYLIC	309.6645	0	184	9	59			252	983
OTHER	309.6660	433	229	247	256			1165	826
NOILS & GARNETTED FIBERS	309.6000 & .7000 ^a	0	20	0	0			20	0
OTHER WASTE, ADVANCED	309.7525 & .7555	50	17	26	9			102	220
SUBTOTAL ABOVE		3763	2872	3700	3247			13582	15182
TOTAL MAN-MADE ABOVE		11251	7728	11063	9691			39733	48712
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN - PLIED									
TEXTURED - CELLULOSIC	310.1106	0	0		0				24
NON-CELLULOSIC	310.1015 ^d & .1109 ^e	407	110	333	266			1116	918
OTHER - CELLULOSIC	310.1030 & .1135 ^f		6	67	0			73	16
NON-CELLULOSIC	310.1050 & .1070 ^g	200	18	13	54			285	117
SPUN YARN - CELLULOSIC	310.4005 & .4030 ^h	28	0	18	20			66	111
OTHER	310.4015 & .4027 ⁱ	1570	1253	1374	1784			5981	6750
OTHER YARNS - NES, INCL. CHENILLE	310.6029 & .8000	205	89	190	229			713	1137
HANDWORK YARNS & SEWING THREAD	310.9000 & .9140	166	203	188	226			783	855
SLIVER, TOPS & ROVING	309.9000	434	309	201	115			1059	1445
TEXTILE GLASS FIBER	309.2800 & .2900 ^j	1737	1092	1011	736			4576	3195
GRAND TOTAL ABOVE		15998	10808	14458	13121			54385	63280

SOURCE: U.S. Census Bureau.

NES - Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. non-cellulosic. Any separation between cellulosic and non-cellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
MAN-MADE FIBER DATA^c								
YARN+MONOFILAMENTS^d								
ACETATE								
NYLON ^e	19.1	16.9	17.7	19.4	16.5		89.6	117.5
INDUSTRIAL ^f	26.2	29.2	31.5	30.8	26.7		144.4	174.3
LOW DENIER INDUSTRIAL ^g	2.6	2.3	2.6	2.5	2.2		12.2	14.9
CARPET	40.3	43.3	46.0	46.1	51.4		227.1	334.9
TEXTILE	27.9	27.0	29.5	28.4	26.6		139.4	182.1
POLYESTER	22.6	24.4	27.8	26.3	22.9		124.0	128.3
INDUSTRIAL ^f	1.9	1.8	1.9	1.9	1.9		9.4	12.3
LOW DENIER INDUSTRIAL ^g	75.4	87.8	88.5	88.2	79.3		419.2	532.1
TEXTILE	50.1	50.4	51.0	48.9	48.5		248.9	281.5
OLEFIN ^h								
TOTAL NON-CELLULOSIC ABOVEⁱ	247.0	266.2	278.8	273.1	259.5		1324.6	1660.4
STAPLE+TOW+FIBERFILL^j								
RAYON								
NYLON ^e	30.3	28.9	31.8	29.0	27.7		147.7	196.4
ACRYLIC+MODACRYLIC	48.0	48.3	49.7	55.9	61.0		262.9	366.9
POLYESTER	45.8	47.7	61.0	52.7	57.5		264.7	312.5
OLEFIN+VINYLON	173.3	176.4	174.0	161.7	156.6		842.0	1084.4
	8.3	10.2	11.4	10.8	14.9		55.6	56.4
TOTAL NON-CELLULOSIC ABOVE	275.4	282.6	296.1	281.1	290.0		1425.2	1820.2
END-OF-MONTH STOCK								
YARN+MONOFILAMENTS								
ACETATE								
NYLON ^e	12.4	11.7	13.5	11.0	11.9		11.9	11.6
INDUSTRIAL ^f	41.7	37.6	33.1	30.4	31.7		31.7	42.5
LOW DENIER INDUSTRIAL ^g	4.5	4.5	4.1	4.6	4.6		4.6	3.4
CARPET	62.3	58.0	55.5	54.1	49.7		49.7	36.4
TEXTILE	50.9	52.9	51.1	48.6	45.9		45.9	43.6
POLYESTER	23.7	25.1	25.2	24.6	27.1		27.1	23.7
INDUSTRIAL ^f	4.0	3.4	3.8	3.7	3.6		3.6	3.3
LOW DENIER INDUSTRIAL ^g	93.4	89.9	93.4	91.9	87.1		87.1	72.5
TEXTILE	64.3	64.0	64.5	63.6	63.3		63.3	58.3
OLEFIN ^h								
TOTAL NON-CELLULOSIC ABOVEⁱ	344.8	335.4	330.7	321.5	313.0		313.0	283.7
STAPLE+TOW+FIBERFILL								
RAYON								
NYLON ^e	32.6	35.6	36.3	35.1	36.2		36.2	25.4
ACRYLIC+MODACRYLIC	63.9	58.7	59.3	53.4	48.9		48.9	40.1
POLYESTER	68.6	65.2	60.2	67.7	63.7		63.7	67.1
OLEFIN+VINYLON	180.4	191.9	189.2	186.6	185.8		185.8	181.7
	30.0	31.3	31.6	29.3	24.7		24.7	15.2
TOTAL NON-CELLULOSIC ABOVE	342.9	347.1	340.3	337.0	323.1		323.1	304.1
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	11.6	10.6	13.0	10.8			46.0	50.9
CARPET CLASS WOOL	0.7	0.9	1.0	0.8			3.4	3.3
TOTAL RAW WOOL	12.3	11.5	14.0	11.6			49.4	54.2
RAW COTTON	207.2	198.6	228.7	217.3	211.1		1062.9	1168.8

a. Year-to-date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February issue.

Textile Organon

June 1982 Supplementary Issue.

A publication of the Textile Economics Bureau, Inc.

World Man-Made Fiber Survey

This is the supplementary issue of the June 1982 *Textile Organon*. The following pages contain all data pertinent to the 1981 world man-made fiber production & producing capacity survey, along with the 1980 production data.

The tables presented are: World Production of Certain Man-Made Fibers, World Non-Cellulosic Fiber Production & Producing Capacity (Except Olefin), World Non-Cellulosic Fiber Production & Producing Capacity by Country (Except Olefin), World Rayon+Acetate Production & Producing Capacity by Country, Rayon vs. Acetate Filament Yarn Production & Producing Capacity by Country, World Olefin Fiber Production by Country, World Acetate Staple Production & Producing Capacity, Estimated World Cigarette Tow Production and World Textile Glass Fiber Production & Producing Capacity.

A new addition is included, a by-area table, which depicts the percent change in production from 1980 to 1981 by non-cellulosic fiber (except olefin) and the capacity utilization of each fiber by each area of the world.

It should be noted that all data in this supplement are in *metric tons*; the July 1982 *Organon* will supply these data in millions of pounds. In addition, the 1980 production data presented are identical to the updated data found in the June *Organon*.

The editors trust that the publication of the 1981 production and producing capacity survey in the form of this supplement has lent itself to greater accuracy of world data. Along these lines, the editors gladly welcome information concerning any data which may be omitted or incorrect.

One further note, the earlier world production and producing capacity data for most of the tables presented may be found in the January 1962 *Organon* Base Book

and in the June 1966, 1970, 1979, 1980 and 1981 issues. Complete data from 1975 to 1980 may be found in this year's June issue.

ACKNOWLEDGEMENTS

This 1981 world man-made fiber survey would not have been possible without the help and cooperation of more than 100 foreign man-made fiber associations, producing companies and individuals, as well as the U.S. Foreign Service posts reporting through the Office of Textiles, Domestic and International Business Administration, U.S. Department of Commerce. Their efforts are greatly appreciated.

OLEFIN DATA PRESENTATION

As has been the practice with past June issues, all world olefin data are presented separately from the other non-cellulosic fibers. This method of presentation is necessitated by a lack of complete or accurate olefin data worldwide.

Two examples illustrate the problem:

A. Though the U.S. olefin production data published regularly in the *Organon* include yarn, monofil, staple, film fiber and spunbonded polypropylene, published Italian and Japanese olefin data, for example, show the production of yarn+mono-

filaments and staple+tow but no data on the production of film fiber, such as is used in sacks, fishing nets and carpet backing.

B. The published man-made fiber data of many other countries show little or no olefin fiber production at all, e.g., France, West Germany and the United Kingdom.

Due to the difficulties given above, the non-cellulosic data except olefin are presented on page 139.

WORLD PRODUCTION OF CERTAIN TEXTILE FIBERS
THOUSAND METRIC TONS & Percent

TYPE OF FIBER	1980	1981
RAYON+ACETATE FIBERS (from page 139)		
YARN+MONOFILAMENTS	1,161	1,103
STAPLE+TOW	2,081	2,089
TOTAL RAYON+ACETATE	3,242	3,192
NON-CELLULOSIC FIBERS except Olefin (from page 138)		
YARN+MONOFILAMENTS	4,745	4,808
STAPLE+TOW	5,747	5,922
TOTAL NON-CELL. ABOVE	10,492	10,730
TOTAL MAN-MADE ABOVE	13,734	13,922
% of World Total	96	95
NATURAL FIBERS		
RAW COTTON	14,296	15,387
RAW WOOL	1,581	1,609
RAW SILK	56	57
TOTAL NATURAL ABOVE	15,903	17,053
% of World Total	54	55
WORLD TOTAL ABOVE	29,637	30,975
World Total %	100	100

For footnotes, see page 105, June 1982 *Organon*.

Then in the table on page 144, the olefin data of most countries are shown. These data consist of (a) the "official" country data published by a government, an association or other statistical agency. Then added to them is (b) an estimate of the olefin fiber, mainly slit and split film fiber, believed to have been produced in the country. No attempt is made to strike a world total as such, for the incomplete data of a number of countries, particularly in Latin America, East Europe and Other Africa, Asia & Oceania, prohibit such a total.

1981 CHANGES IN PRODUCTION AND CAPACITY UTILIZATION

The most dramatic rise in production of non-cellulosic fibers (except olefin) from 1980 to 1981 was registered by the nations under the category of "All Other" or, more specifically, Other Africa, Asia and Oceania. 1981 yarn+monofilament production rose 12.1% from 1980 to 899 thousand metric tons (tmt), as did staple+tow production by 9.7% to 1,094 tmt. These countries exhibited a total increase of 10.8% for all fibers, from 1,799 tmt in 1980 to 1,993 tmt in 1981.

West Europe also posted increases in production over 1980 levels. Yarn+monofilament production rose 1.8% in 1981, to 896 tmt, and staple+ tow production increased 7.3% to 1,382 tmt, yielding a total rise of 5.1% in the production of fibers, from 2,168 tmt in 1980 to 2,278 tmt in 1981.

The United States made modest gains in production with yarn+monofilaments up 1.9%, to 1,439 tmt in 1981, and staple+tow increasing by 0.4% to 1,837 tmt. Total production of fibers for the United States rose by 1.0%, from 3,242 tmt in 1980 to 3,276 tmt in 1981.

The countries listed under "Other Americas" recorded a decline in total fiber production for 1981 of 7.5%, to 674 tmt. Off 9.6% from 1980, yarn+monofilament production fell to 385 tmt, while production of staple+tow dropped 4.6% to 289 tmt.

Japan's production declined for 1981, off 2.1% from 1980, to 1,329 tmt. Production of yarn+monofilaments fell 3.0% in 1981, from 1980's level of 626 tmt to 607 tmt in 1981. Staple+tow production, off 1.2% in 1981, fell to 722 tmt from the 731 tmt produced in 1980.

Production of yarn+monofilaments in East Europe fell 2.8% in 1981, from the 599 tmt produced in 1980 to the 1981 level of 582 tmt. Production of staple+tow remained unchanged from 1980 at 598 tmt. Total fiber production for 1981 fell 1.4% to 1,180 tmt.

A comparison of the 1981 rates of capacity utilization for non-cellulosic fibers (except olefin), which includes 1981 production and the March 1982 capacities of fibers, yields the following results:

The United States posted a total capacity utilization rate for 1981 of 87.5%. In 1981, the yarn+monofilament

(Continued on page 143)

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Textile Organon

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WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN)

THOUSAND METRIC TONS

		ACTUAL PROD.		PROD. CAPACITY				ACTUAL PROD.		PROD. CAPACITY				ACTUAL PROD.		PROD. CAPACITY					
COUNTRY		1980	1981	1982	1983			COUNTRY		1980	1981	1982	1983			COUNTRY		1980	1981	1982	1983
WEST EUROPE												OTHER AFRICA, ASIA & OCEANIA									
AUSTRIA	S	25.4	24.0	21.0	21.0	ROMANIA		Y	33.0	34.0	40.0	47.0	AUSTRALIA N.Z.		Y	13.0	10.0	26.5	26.5		
BENELUX	Y	71.9	80.4	110.4	78.6	S		103.0	104.0	144.0	144.0	S		+	0	0	0				
S	32.4	25.3	30.3	35.3	TOT		136.0	138.0	184.0	191.0	TOT		13.0	10.0	26.5	26.5					
TOT	104.3	105.7	140.7	113.9	U.S.S.R.		Y	319.0	312.5	444.0	476.0	BANGLADESH		Y	0.3	0.2	0.9	0.9			
IRELAND (EIRE)	Y	10.0	7.5	7.0	7.0	S		231.0	251.0	349.0	349.0	PEOPLES REP. OF CHINA		Y	66.0	82.0	165.0	215.0			
S	31.7	31.3	39.0	39.0	TOT		550.0	563.5	793.0	825.0	S		204.0	241.8	325.0	335.0					
TOT	41.7	38.8	46.0	46.0	YUGOSLAVIA		Y	23.0	24.0	43.0	43.0	TOT		270.0	323.8	490.0	550.0				
FINLAND	Y	0.4	0.6	0.6	0.6	S		40.0	41.0	69.0	69.0	EGYPT		Y	1.8	2.0	9.0	9.0			
FRANCE	Y	65.3	66.4	108.0	108.0	TOT		63.0	65.0	112.0	112.0	S		5.0	5.0	25.0	25.0				
S	126.7	134.8	162.0	163.0	TOTAL EUROPE		Y	1479.3	1477.8	1981.5	1997.8	TOT		6.8	7.0	34.0	34.0				
TOT	192.0	201.2	270.0	271.0	S		1886.2	1980.5	2763.8	2771.8	INDIA		Y	39.7	50.3	64.1	92.1				
GERMANY, FED. REP. OF	Y	317.7	320.7	382.0	382.0	TOT		3365.5	3458.3	4745.3	4769.6	S		308	39.8	51.7	82.4				
S	402.4	431.5	501.0	501.0	U.S.A.		Y	1411.6	1438.8	1633.9	1668.9	TOT		70.5	90.1	115.8	174.5				
TOT	720.1	752.2	883.0	883.0	S		1830.5	1836.7	2108.3	2171.8	INDONESIA		Y	41.5	46.4	80.0	80.0				
GREECE	Y	9.0	9.0	15.7	15.7	TOT		3242.1	3275.5	3742.2	3840.7	S		53.9	55.1	58.6	58.6				
S	10.0	10.4	12.0	12.0	OTHER AMERICAS		ARGENTINA		Y	21.3	16.0	45.0	45.0	TOT		95.4	101.5	138.6	138.6		
TOT	19.0	19.4	27.7	27.7	S		12.9	8.3	32.0	37.0	IRAN		Y	4.5	4.0	24.2	24.2				
ITALY-MALTA	Y	124.9	149.6	204.7	204.7	TOT		34.2	24.3	77.0	82.0	S		0	0	37.7	37.7				
S	229.9	286.3	447.0	447.0	BRAZIL		Y	136.4	115.0	146.5	146.5	TOT		4.5	4.0	61.9	61.9				
TOT	354.8	435.9	651.7	651.7	S		95.0	86.8	108.8	108.8	ISRAEL		Y	10.5	10.5	13.0	13.0				
PORTUGAL	Y	1.4	1.4	1.5	1.5	TOT		231.4	201.8	255.3	255.3	S		6.6	6.8	8.0	8.0				
S	32.1	34.0	41.0	41.0	CANADA		Y	74.0	65.9	119.0	119.0	TOT		17.1	17.3	21.0	21.0				
TOT	33.5	35.4	42.5	42.5	S		48.0	43.9	55.2	55.2	KENYA		Y	1.0	1.0	8.0	8.0				
SPAIN	Y	64.9	72.3	103.4	103.9	TOT		122.0	109.8	174.2	174.2	S		0	0	5.4	5.4				
S	142.5	168.9	203.5	204.5	CHILE		Y	5.0	5.0	10.5	10.5	TOT		1.0	1.0	13.4	13.4				
TOT	207.4	241.2	306.9	308.4	S		2.5	2.5	4.2	4.2	KOREA, REP. OF		Y	255.2	283.8	316.0	365.0				
SWEDEN	Y	0.1	0.1	0.2	0.2	TOT		7.5	7.5	14.7	14.7	S		281.2	326.4	339.9	354.8				
SWITZERLAND	Y	60.7	61.6	77.5	78.5	COLOMBIA		Y	23.0	20.2	42.7	57.5	TOT		536.4	610.2	655.9	719.8			
S	23.7	22.0	34.0	34.0	S		10.9	11.2	14.0	14.0	MALAYSIA		S	36.0	36.0	37.8	37.8				
TOT	84.4	83.6	111.5	112.5	TOT		33.9	31.4	56.7	71.5	NIGERIA		Y	2.5	2.7	5.0	5.0				
TURKEY	Y	28.0	26.5	66.0	72.6	COSTA RICA		Y	3.0	3.0	6.5	6.5	S		2.5	2.5	5.0	5.0			
S	70.0	65.0	144.5	145.5	ECUADOR		Y	3.5	3.5	4.8	4.8	TOT		5.0	5.2	10.0	10.0				
TOT	98.0	91.5	210.5	218.1	GUATEMALA		Y	0	0	2.0	2.0	PAKISTAN		Y	1.5	1.5	24.4	27.5			
UNITED KINGDOM	Y	125.9	99.4	114.0	105.0	MEXICO		Y	137.0	134.1	210.0	230.0	S		0	0	24.0	24.0			
S	161.7	149.4	251.0	251.0	S		102.4	107.6	188.5	188.5	TOT		1.5	1.5	48.4	51.5					
TOT	287.6	248.8	365.0	356.0	TOT		239.4	241.7	398.5	418.5	PHILIPPINES		Y	30.0	32.0	40.0	40.0				
EAST EUROPE					PERU		Y	10.5	10.1	11.4	15.0	S		14.0	15.0	18.0	18.0				
BULGARIA	Y	12.8	12.5	13.5	13.5	S		22.5	21.1	24.5	33.5	TOT		44.0	47.0	58.0	58.0				
S	37.0	39.0	62.0	62.0	TOT		33.0	31.2	35.9	48.5	SINGAPORE		Y	0	0	0	0				
TOT	49.8	51.5	75.5	75.5	URUGUAY		Y	1.1	0.9	1.1	1.1	SOUTH AFRICA		Y	33.5	33.6	43.0	43.0			
CZECHOSLOVAKIA	Y	54.0	55.5	59.0	59.0	S		2.6	2.1	3.4	3.4	S		20.0	20.0	22.0	22.0				
S	22.4	25.1	53.0	53.0	TOT		3.7	3.0	4.5	4.5	TOT		53.5	53.6	65.0	65.0					
TOT	76.4	80.6	112.0	112.0	VENEZUELA		Y	11.5	11.2	15.4	15.4	SRI LANKA		Y	0	0.8	2.7	2.7			
GERMAN DEM. REP.	Y	57.0	58.1	73.0	73.0	S		6.0	6.0	6.9	6.9	TAIWAN		Y	264.6	298.2	396.7	396.7			
S	82.0	84.0	103.0	103.0	TOT		17.5	17.2	22.3	22.3	S		293.2	298.8	369.1	369.1					
TOT	139.0	142.1	176.0	176.0	TOTAL OTHER AMERICAS		Y	426.3	384.9	614.9	653.3	TOT		557.8	587.0	765.8	765.8				
HUNGARY	Y	5.8	7.0	6.0	6.0	S		302.8	289.5	437.5	451.5	THAILAND		Y	36.5	40.4	30.4	40.4			
S	13.8	14.3	17.5	17.5	TOT		729.1	674.4	1052.4	1104.8	S		49.5	56.3	42.3	56.0					
TOT	19.6	21.3	23.5	23.5	JAPAN		Y	625.7	607.0	742.0	742.0	TOT		86.0	96.7	72.7	96.4				
POLAND	Y	94.5	78.7	112.0	122.0	Y		625.7	607.0	742.0	742.0	TOTAL A, A & O		Y	802.1	899.4	1248.9	1389.0			
S	68.5	39.2	80.0	80.0	S		731.1	721.8	857.0	857.0	S		996.7	1093.5	1369.5	1438.8					
TOT	163.0	117.9	192.0	202.0	TOT		1356.8	1328.8	1599.0	1599.0	TOT		1798.8	1992.9	2618.4	2827.8					
					WORLD TOTAL		Y	4745.0	4807.9	6221.2	6451.0	EXCEPT		Y	5747.3	5922.0	7536.1	7690.9			
					OLEFIN		TOT	10492.3	10729.9	13757.3	14141.9	OLEFIN		TOT	10492.3	10729.9	13757.3	14141.9			

Y means yarn+monofilaments. S means staple+tow+fiberfill. TOT means total.

The producing capacity, in operable condition, is shown on an annual basis.

These totals do not contain data for the fibers produced in North Korea. a. Benelux includes Belgium, Netherlands and Luxembourg.

basis as of March 1982 (1982) and December 1983 (1983).

**WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY
BY COUNTRY**
THOUSAND METRIC TONS

		ACTUAL PROD.		PROD. CAPACITY				ACTUAL PROD.		PROD. CAPACITY		ACTUAL PROD.		PROD. CAPACITY			
COUNTRY		1980	1981	1982	1983	COUNTRY		1980	1981	1982	1983	COUNTRY		1980	1981	1982	1983
WEST EUROPE																	
AUSTRIA	Y	15.3	15.2	16.0	16.0	CZECHOSLOVAKIA	Y	19.8	18.3	25.0	25.0	MEXICO	Y	16.8	16.6	21.8	21.8
	S	100.6	101.6	106.0	106.0		S	34.9	36.0	57.0	57.0		S	11.0	11.3	12.0	12.0
TOT		115.9	116.8	122.0	122.0	TOT		54.7	54.3	82.0	82.0	TOT		27.8	27.9	33.8	33.8
BELGIUM	Y	37.4	38.6	43.9	43.9	GERMAN DEM.	Y	36.5	37.2	38.5	38.5	PERU	Y	1.5	1.3	1.7	1.7
NETHERLANDS	S	22.0	14.6	30.0	17.8	REP.	S	132.0	128.0	145.0	145.0	URUGUAY	Y	1.3	1.0	1.4	1.4
TOT		59.4	53.2	73.9	61.7	TOT		168.5	165.2	183.5	183.5	VENEZUELA	Y	2.8	2.8	3.6	3.6
FINLAND	Y	0.6	0	0	0	HUNGARY	S	9.0	7.5	10.0	10.0	TOTAL OTHER	Y	70.0	62.2	86.7	86.7
	S	47.2	46.6	58.0	61.0	POLAND	Y	25.4	19.5	31.5	31.5	AMERICAS	S	74.6	71.6	94.8	94.8
TOT		47.8	46.6	58.0	61.0		S	61.0	44.4	71.5	71.5	TOT		144.6	133.8	181.5	181.5
FRANCE	Y	16.4	11.0	10.0	10.0	TOT		86.4	63.9	103.0	103.0	JAPAN	Y	119.3	118.7	136.0	136.0
	S	49.6	42.9	65.0	65.0	ROMANIA	Y	9.5	9.6	10.0	10.0		S	278.0	273.5	317.2	317.2
TOT		66.0	53.9	75.0	75.0	TOT		63.5	64.6	65.0	180.0	TOT		397.3	392.2	453.2	453.2
GERMANY, FED.	Y	65.2	65.0	69.0	68.0	U.S.S.R.	Y	305.0	298.0	340.0	340.0	OTHER AFRICA, ASIA & OCEANIA					
REP. OF	S	46.0	50.0	55.0	55.0		S	345.0	345.5	353.0	353.0	AUSTRALIA	Y	0	0	0	0
TOT		111.2	115.0	124.0	123.0	TOT		650.0	643.5	693.0	693.0	BANGLADESH	Y	3.5	3.0	5.4	5.4
GREECE	Y	7.2	7.2	7.5	7.5	YUGOSLAVIA	Y	15.0	15.0	17.0	17.0	PEOPLE'S REPUBLIC	Y	75.0	80.0	100.0	100.0
	S	36.6	35.1	53.0	53.0		S	58.0	58.0	60.0	60.0	OF CHINA	S	95.0	105.0	130.0	130.0
ITALY	Y	27.5	24.4	35.0	35.0	TOT		73.0	73.0	77.0	77.0	TOT		170.0	185.0	230.0	230.0
TOT		64.1	59.5	88.0	88.0	TOTAL EAST	Y	414.5	400.9	467.0	467.0	EGYPT	Y	6.0	6.0	7.0	7.0
NORWAY	S	28.4	28.4	32.0	32.0	EUROPE	S	726.9	707.7	793.5	908.5		S	4.0	4.0	5.4	5.4
PORTUGAL	Y	2.7	2.9	4.0	4.0	TOT		1141.4	1108.6	1260.5	1375.5	TOT		10.0	10.0	12.4	12.4
	S	0.7	1.0	5.4	5.4	U.S.A.	Y	161.3	138.6	170.5	170.5	INDIA	Y	57.7	55.9	66.5	66.5
TOT		3.4	3.9	9.4	9.4		S	204.3	210.7	233.1	233.1		S	74.7	94.5	113.8	141.3
SPAIN	Y	12.8	12.6	17.1	17.1	TOT		365.6	349.3	403.6	403.6	TOT		132.4	150.4	180.3	207.8
	S	40.1	37.8	61.6	61.6	OTHER AMERICAS						INDONESIA	S	0	0	0	0
TOT		52.9	50.4	78.7	78.7	ARGENTINA	Y	2.0	1.0	10.0	10.0	IRAQ	Y	3.0	3.0	3.5	3.5
SWEDEN	Y	0	0	0	0		S	1.5	0	10.0	10.0		S	5.5	5.5	6.5	6.5
	S	34.9	34.7	45.0	45.0	TOT		3.5	1.0	20.0	20.0	TOT		8.5	8.5	10.0	10.0
TOT		34.9	34.7	45.0	45.0	BRAZIL	Y	26.0	21.0	25.2	25.2	KOREA,	Y	12.4	12.8	13.7	13.7
SWITZERLAND	Y	1.8	1.5	5.0	5.0		S	25.3	25.3	28.8	28.8	REPUBLIC OF	S	15.0	13.9	28.1	28.1
TURKEY	Y	0.3	0.3	0.5	0.5	TOT		51.3	46.3	54.0	54.0	TOT		27.4	26.7	41.8	41.8
	S	5.0	5.0	5.0	5.0	CANADA	Y	14.0	13.5	14.5	14.5	PAKISTAN	Y	2.7	2.4	3.3	3.3
TOT		5.3	5.3	5.5	5.5		S	30.0	28.2	33.6	33.6	TAIWAN	Y	3.0	3.0	4.0	4.0
UNITED	Y	36.7	27.0	36.0	36.0	TOT		44.0	41.7	48.1	48.1		S	75.3	96.7	88.0	88.0
KINGDOM	S	109.3	102.4	115.5	115.5	CHILE	Y	1.0	1.0	2.0	2.0	TOT		78.3	99.7	92.0	92.0
TOT		146.0	129.4	151.5	151.5		S	3.0	3.0	5.4	5.4	THAILAND	S	16.4	16.4	15.1	16.4
TOTAL WEST	Y	233.0	216.4	262.0	261.0	COLOMBIA	Y	2.4	1.8	3.5	3.5	TOTAL	Y	163.3	166.1	203.4	203.4
EUROPE	S	511.3	489.4	613.5	604.3		S	0	0	0	0	OTHER	S	285.9	336.0	386.9	415.7
TOT		744.3	705.8	875.5	865.3	TOT		2.4	1.8	3.5	3.5	A, A & O TOT		449.2	502.1	590.3	619.1
EAST EUROPE																	
BULGARIA	Y	3.3	3.3	5.0	5.0	CUBA	Y	2.2	2.2	3.0	3.0	WORLD TOTAL	Y	1161.4	1102.9	1325.6	1324.6
	S	33.0	33.3	42.0	42.0		S	3.8	3.8	5.0	5.0	S	2081.0	2088.9	2439.0	2573.6	
TOT		36.3	36.6	47.0	47.0	TOT		6.0	6.0	8.0	8.0	TOT		3242.4	3191.8	3764.6	3898.2

Y means yarn+monofilaments. S means staple+tow. TOT means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1982 (1982) and December 1983 (1983).

These totals do not include data for the Indonesian pilot plant nor

production of cellulosic fibers in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on page 141. Also note page 144 for data on production of acetate staple and cigarette tow.

**RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY
BY COUNTRY**
THOUSAND METRIC TONS

COUNTRY		ACTUAL PROD.		PROD. CAPACITY		COUNTRY		ACTUAL PROD.		PROD. CAPACITY		COUNTRY		ACTUAL PROD.		PROD. CAPACITY					
		1980	1981	1982	1983			1980	1981	1982	1983			1980	1981	1982	1983				
WEST EUROPE																					
AUSTRIA		H	11	11	12	12	GERMAN, DEM. REP.		H	14	14	15	15	MEXICO		H	3	3	5	5	
		R	4	4	4	4			R	23	23	24	24			R	6	6	7	7	
BELGIUM		H	15	16	19	19	POLAND		H	7	5	8	8	PERU		A	8	8	10	10	
		R	16	16	17	17			R	18	15	23	23			R	0	0	0	0	
NETHERLANDS		A	6	6	8	8	ROMANIA		H	6	6	6	6	URUGUAY		A	2	1	2	2	
		A	6	6	8	8			R	4	4	4	4			A	1	1	1	1	
FRANCE		H	8	2	0	0	U.S.S.R.		H	165	163	170	170	VENEZUELA		A	3	3	4	4	
		R	9	9	10	10			R+C	85	80	100	100			TOTAL OTHER AMERICAS	H	12	9	15	15
GERMANY, FED. REP. OF		A	0	0	0	0	YUGOSLAVIA		A	55	55	70	70	JAPAN		R	24	21	30	30	
		H	40	39	43	43			H	7	7	8	8			A	34	32	42	42	
		R+C	24	25	25	25			R	8	8	9	9			R+C	84	82	92	92	
		A	1	1	1	0			A	140	117	145	145			A	32	33	34	34	
ITALY		H	11	11	12	12	TOTAL EAST EUROPE		H	208	203	218	218	OTHER AFRICA, ASIA & OCEANIA							
		R+C	5	5	18	18			R+C	152	143	179	179			AUSTRALIA	H	0	0	0	0
SPAIN		A	21	19	23	23			A	55	55	70	70			A	0	0	0	0	
		H	6	6	9	9			INDIA	H	14	14	20			20					
		R	4	3	5	5	U.S.A.		H	14	15	19	19			R	42	40	43	43	
		A	3	3	3	3					R+C	7	7			7	7			A	2
SWEDEN		A	3	3	3	3	OTHER AMERICAS				A	140	117	145	145					PAKISTAN	A
		H	0	0	0	0			ARGENTINA		H	1	0	2	2					KOREA, REP. OF	R
UNITED KINGDOM		H	1	0	0	0					R	1	+	5	5					A	2
		R	2	0	0	0			BRAZIL		A	+	1	3	3					OTHER ^b	R
		A	34	27	36	36					H	6	4	5	5					TOTAL OTHER A, A & O	H
		OTHER ^a	R	12	13	17			17	CANADA		R	16	14	16			16			R
TOTAL WEST EUROPE		H	92	85	95	95			A			4	3	5	5			A			7
		R+C	76	75	96	96			CHILE		R	1	1	2	2					WORLD TOTAL	H
		A	65	56	71	70	COLOMBIA				A	14	13	14	14					R+C	485
		EAST EUROPE									R	1	1	2	2					A	333
BULGARIA				R	3	3	5	5					R	0	0	0	0				
		CZECHOSLOVAKIA		H	9	8	11	11					A	2	2	3	3				
				R	11	10	14	14					H	2	2	3	3				
										R			+	+	+	+					

H means high tenacity (tire & industrial type) viscose rayon yarn. R means regular+intermediate tenacity viscose rayon yarn. C means cuprammonium rayon yarn. A means acetate+triacetate yarn.

a. "Other West Europe" comprises Finland, Greece, Portugal, Switzerland

and Turkey.

b. "Other Africa, Asia & Oceania" comprises Bangladesh, People's Republic of China, Egypt, Iraq and Taiwan.

RAYON+ACETATE CAPACITY UTILIZATION

Although only the non-cellulosic fibers are covered in a capacity utilization table, the following discussion is provided in the hope that it will prove of interest.

For the year of 1981, the world capacity utilization rate for rayon+acetate yarn+monofilaments and staple+tow, which is tabulated with 1981 production and March 1982 capacity data, was 84.8%. The two components of the total rate of utilization were as follows: yarn+monofilaments, 83.2%, and staple+tow, 85.6%.

Recording the highest rate of total rayon+acetate capacity utilization in the world, East Europe posted 87.9% for 1981. Yarn+monofilaments was at 85.8% and staple+tow at 89.2%.

The United States and Japan had equal total rates of utilization for 1981: both were at 86.5%. However, an

examination of the yarn+monofilament and staple+tow components reveals that Japan had a higher rate for yarn+monofilaments, 87.3% as opposed to 81.3% for the U.S., but that the U.S. recorded a higher rate for staple+tow for 1981, 90.4% compared with 86.2% for Japan.

The next highest rate of utilization in the world was established by the nations of Other Africa, Asia and Oceania, at 85.1% for 1981. Yarn+monofilaments had a utilization rate of 81.7%, as compared with staple+tow, which had a rate of 86.8% for 1981.

The lowest rate of utilization for rayon+acetate was exhibited by the countries categorized under the label of "Other Americas" with a rate of 73.7% for 1981. The utilization rate for yarn+monofilaments and staple+tow were, respectively, 71.7% and 75.5%.

WORLD NON-CELLULOSIC FIBER PRODUCTION BY FIBER EXCEPT OLEFIN
THOUSAND METRIC TONS

FIBER & AREA	ACTUAL PRODUCTION						PRODUCING CAPACITY					
	1980			1981			1982			1983		
	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC												
WEST EUROPE	+	729	729	+	798	798	+	1027	1027	+	1028	1028
EAST EUROPE	0	216	216	0	215	215	0	265	265	0	265	265
U.S.A.	0	354	354	0	313	313	0	382	382	0	388	388
OTHER AMERICAS	0	111	111	0	104	104	0	166	166	0	173	173
JAPAN	3	350	353	2	348	350	6	389	395	6	389	395
ALL OTHER	0	304	304	0	319	319	0	381	381	0	397	397
TOTAL	3	2064	2067	2	2097	2099	6	2610	2616	6	2640	2646
NYLON+ARAMID												
WEST EUROPE	522	152	674	528	132	660	687	210	897	689	211	900
EAST EUROPE	461	55	516	453	70	523	593	86	679	625	86	711
U.S.A.	740	330	1070	717	341	1058	894	448	1342	922	478	1400
OTHER AMERICAS	209	23	232	183	20	203	290	36	326	293	36	329
JAPAN	300	18	318	282	19	301	317	24	341	317	24	341
ALL OTHER	364	2	366	384	3	387	495	10	505	578	10	588
TOTAL	2596	580	3176	2547	585	3132	3276	814	4090	3424	845	4269
POLYESTER												
WEST EUROPE	354	396	750	363	444	807	497	638	1135	463	643	1106
EAST EUROPE	131	320	451	122	307	429	186	517	703	203	517	720
U.S.A.	663	1146	1809	712	1182	1894	727	1277	2004	733	1305	2038
OTHER AMERICAS	216	169	385	201	165	366	323	235	558	359	242	601
JAPAN	305	320	625	310	321	631	391	341	732	391	341	732
ALL OTHER	432	651	1083	508	722	1230	739	919	1658	796	972	1768
TOTAL	2101	3002	5103	2216	3141	5357	2863	3927	6790	2945	4020	6965
OTHER FIBERS^a EXCEPT OLEFIN												
WEST EUROPE	4	11	15	5	8	13	6	12	18	6	12	18
EAST EUROPE	7	7	14	7	6	13	12	9	21	12	10	22
U.S.A.	9	+	9	10	1	11	13	1	14	14	1	15
OTHER AMERICAS	1	0	1	1	0	1	2	0	2	1	0	1
JAPAN	18	43	61	13	34	47	28	103	131	28	103	131
ALL OTHER	6	40	46	7	50	57	15	60	75	15	60	75
TOTAL	45	101	146	43	99	142	76	185	261	76	186	262
TOTAL FIBERS ABOVE												
WEST EUROPE	880	1288	2168	896	1382	2278	1190	1887	3077	1158	1894	3052
EAST EUROPE	599	598	1197	582	598	1180	791	877	1668	840	878	1718
U.S.A.	1412	1830	3242	1439	1837	3276	1634	2108	3742	1669	2172	3841
OTHER AMERICAS	426	303	729	385	289	674	615	437	1052	653	451	1104
JAPAN	626	731	1357	607	722	1329	742	857	1599	742	857	1599
ALL OTHER	802	997	1799	899	1094	1993	1249	1370	2619	1389	1439	2828
WORLD TOTAL	4745	5747	10492	4808	5922	10730	6221	7536	13757	6451	7691	14142

Y means yarn+monofilaments. S means staple+tow+fiberfill. The regional totals here are the same as those on pages 108-109.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE fluorocarbon, vinal and vinyon.

**1981 CHANGES IN PRODUCTION & CAPACITY UTILIZATION
OF NON-CELLULOSIC FIBERS (EXCEPT OLEFIN)**

FIBER & AREA	1981 PRODUCTION % ^b			CAPACITY UTILIZATION % ^c		
	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC+MODACRYLIC						
WEST EUROPE	..	+9.5	+9.5	..	77.7	77.7
EAST EUROPE	..	-0.5	-0.5	..	81.1	81.1
U.S.A.	..	-11.6	-11.6	..	81.9	81.9
OTHER AMERICAS	..	-6.3	-6.3	..	62.6	62.6
JAPAN	-33.3	-0.6	-0.9	33.3	89.5	88.6
ALL OTHER	..	+4.9	+4.9	..	83.7	83.7
TOTAL	-33.3	+1.6	+1.5	33.3	80.4	80.2
NYLON+ARAMID						
WEST EUROPE	+1.2	-13.1	-2.1	76.9	62.9	73.6
EAST EUROPE	-1.7	+21.4	+1.3	76.4	81.4	77.0
U.S.A.	-3.1	+3.3	-1.1	80.2	76.1	78.8
OTHER AMERICAS	-12.4	-13.0	-12.5	63.1	55.6	62.3
JAPAN	-6.0	+5.5	-5.3	89.0	79.2	88.3
ALL OTHER	+5.5	+50.0	+5.7	77.6	30.0	76.6
TOTAL	-1.9	+0.9	-1.4	77.7	71.9	76.6
POLYESTER						
WEST EUROPE	+2.5	+12.1	+7.6	73.0	69.6	71.1
EAST EUROPE	-6.9	-4.1	-4.9	65.6	59.4	61.0
U.S.A.	+7.4	+3.1	+4.7	97.9	92.6	94.5
OTHER AMERICAS	-6.9	-2.4	-4.9	62.2	70.2	65.6
JAPAN	+1.6	+0.3	+1.0	79.3	94.1	86.2
ALL OTHER	+17.6	+10.9	+13.6	68.7	78.6	74.2
TOTAL	+5.5	+4.6	+5.0	77.4	80.0	78.9
OTHER FIBERS^a EXCEPT OLEFIN						
WEST EUROPE	+25.0	-27.3	-13.3	62.5	66.7	72.2
EAST EUROPE	..	-14.3	-7.1	58.3	66.7	61.9
U.S.A.	+11.1	..	+22.2	76.9	..	78.6
OTHER AMERICAS	..	..	..	50.0	..	50.0
JAPAN	-27.8	-20.9	-22.9	46.4	33.0	35.9
ALL OTHER	+16.7	+25.0	+23.9	46.7	83.3	76.0
TOTAL	-4.4	-2.0	-2.7	56.6	53.5	54.4
TOTAL FIBERS ABOVE						
WEST EUROPE	+1.8	+7.3	+5.1	75.3	73.2	74.0
EAST EUROPE	-2.8	..	-1.4	73.6	68.2	70.7
U.S.A.	+1.9	+0.4	+1.0	88.1	87.1	87.5
OTHER AMERICAS	-9.6	-4.6	-7.5	62.6	66.1	64.1
JAPAN	-3.0	-1.2	-2.1	81.8	84.2	83.1
ALL OTHER	+12.1	+9.7	+10.8	72.0	80.0	76.1
WORLD TOTAL	+1.3	+3.0	+2.3	77.3	78.6	78.0

All percentages based on data from table opposite.

Y means yarn+monofilament. S means staple+tow+fiberfill. - means no change.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE fluorocarbon, vinal and vinyon.

b. Percent change in production from 1980 to 1981.

c. Based on 1981 production and March 1982 (1982) capacity data.

(Continued from page 138)

rate was 88.1%, and for staple+tow the rate was 87.1%.

Japan registered a utilization rate for yarn+monofilaments of 81.8% and for staple+tow of 84.2% for 1981. Japan's capacity rate for all fibers totaled 83.1%.

The nations under the category of "All Other," i.e., Other Africa, Asia and Oceania, posted a total utilization rate of 76.1% for 1981. Yarn+monofilament utilization was at 72%, while staple+tow was at 80.0%.

West Europe's rate of utilization was 74.0% for all fibers. Yarn+monofilaments had a capacity rate of 75.3% and staple+tow posted a rate of 73.2% for 1981.

With a capacity utilization rate of 70.7% for all fibers, East Europe had a yarn+monofilament rate of 73.6% and of 68.2% for staple+tow for 1981.

Other Americas had the lowest capacity utilization rate for all products, with yarn+monofilaments at 62.6% of capacity and staple+tow at 66.1% for 1981. The total Other Americas fiber capacity utilization totaled 64.1%.

JUNE ORGANON CORRECTION

Argentina. On page 114, the companies Fibras Industriales S.A.C.e I. and Petroquímica Sudamericana S.A. should be delisted, thus reducing the world total of nylon plants by two and of polyester plants by one.

WORLD OLEFIN FIBER PRODUCTION

THOUSAND METRIC TONS

COUNTRY	1975	1976	1977	1978	1979	1980	1981
WEST EUROPE							
BENELUX	22	34	41	49	56	57	66
DENMARK	8	7	12	14	15	14	14
FRANCE	25	35	26	30	24	27	28
GERMANY, FED. REP. OF	36	46	51	52	57	53	51
IRELAND (EIRE)	4	6	6	5	6	9	9
ITALY	52	55	53	59	61	57	62
UNITED KINGDOM	61	71	79	80	82	80	81
SUBTOTAL EEC	208	254	268	289	301	297	316
AUSTRIA	12	15	15	18	19	18	18
FINLAND	2	3	3	3	3	3	3
GREECE, CYPRUS	4	6	8	9	10	9	9
NORWAY	4	4	3	3	4	4	4
PORTUGAL	20	22	27	39	38	40	38
SPAIN	14	21	35	36	37	38	38
SWEDEN	2	3	3	3	3	3	3
SWITZERLAND	3	3	3	3	3	3	3
TURKEY	5	5	5	6	5	5	5
TOTAL WEST EUROPE	274	336	370	409	423	420	437
EAST EUROPE							
CZECHOSLOVAKIA	10	11	12	11	12	11	11
HUNGARY	6	6	8	10	13	15	16
POLAND	6	11	13	14	13	14	15
U.S.S.R.	3	8	12	12	15	15	15
U.S.A.							
YARN+MONOFIL	119	134	138	143	151	147	145
STAPLE	24	27	36	43	54	51	59
FILM FIBER	82	100	113	128	139	140	148
OTHER AMERICAS							
ARGENTINA	6	9	10	11	11	10	10
BRAZIL	20	27	33	40	39	40	40
CANADA	33	30	32	31	32	30	30
CHILE	0	0	0	1	1	1	1
EL SALVADOR	1	1	2	2	2	2	2
GUATEMALA							
HONDURAS							
MEXICO	5	7	17	18	20	22	23
NICARAGUA	+	1	1	1	1	1	1
PERU	3	4	5	5	5	5	6
URUGUAY	2	2	2	1	1	1	2
JAPAN							
YARN+MONOFIL	11	14	15	16	18	16	14
STAPLE	30	28	25	27	29	27	26
FILM FIBER	40	44	45	NA	NA	NA	NA
OTHER AFRICA, ASIA & OCEANIA							
AUSTRALIA	15	16	17	18	20	20	20
KOREA, REP. OF	5	5	6	7	8	4	3
PHILIPPINES	+	+	1	2	2	2	2
SOUTH AFRICA	10	10	9	3	3	3	3
TAIWAN	6	6	27	26	25	25	25
OTHER	0	0	+	+	+	+	+

The olefin data shown comprise (a) the tonnages of yarn, monofilaments and staple plus film fiber reported by official sources, such as governments, trade associations or other statistical agents plus (b) estimates of the additional tonnages of olefin fiber not included in the aforementioned data. Note text on page 137.

No attempt is made to strike a world total inasmuch as data are incomplete for a number of countries, particularly in Latin America, East Europe and Other Africa, Asia & Oceania.

WORLD ACETATE STAPLE PRODUCTION & CAPACITY

THOUSAND METRIC TONS

COUNTRY	PRODUCTION							CAPACITY	
	1975	1976	1977	1978	1979	1980	1981	1982	1983
U.K.	1.2	0.8	0.7	0.5	0.5	0.3	0.2	0.5	0.5
U.S.A.	5.5	5.0	3.6	3.2	3.2	3.2	1.8	3.6	3.6
CANADA	1.6	1.2	1.7	0.6	0	0	0	0	0
INDIA	0.3	0.4	0.2	0.4	0.4	0.1	0.3	0.8	0.8
WORLD TOTAL	8.6	7.4	6.2	4.7	4.1	3.6	2.3	4.9	4.9

ESTIMATED WORLD CIGARETTE TOW PRODUCTION

THOUSAND METRIC TONS

AREA	1975	1976	1977	1978	1979	1980	1981
EUROPE ^a	49	59	67	76	74	74	81
U.S.A.	130	137	146	150	166	185	190
OTHER AMER ^b	26	27	27	30	33	35	36
ASIA ^c	36	37	39	40	41	41	42
WORLD TOTAL	241	260	279	296	314	335	349

a. Belgium, Fed. Rep. of Germany, U.S.S.R. & United Kingdom.

b. Brazil, Canada, Colombia, Mexico & Venezuela.

c. Japan and Rep. of Korea.

WORLD TEXTILE GLASS FIBER PRODUCTION & PRODUCING CAPACITY

THOUSAND METRIC TONS

COUNTRY	PRODUCTION							CAPACITY	
	1975	1976	1977	1978	1979	1980	1981	1982	1983
WEST EUROPE	175	224	292	304	310	300	277	340	340
EAST EUROPE ^a								50	50
U.S.A.								769	818
OTHER AMERICAS	21	26	26	27	28	30	31	40	40
JAPAN	65	105	127	146	178	167	174	193	228
OTHER AA & O ^b	6	12	13	12	12	13	14	27	29
TOTAL ABOVE	515	674	815	908	988	903	968	1419	1505
CHINA P.R.C.	DATA ARE NOT AVAILABLE							50	50
U.S.S.R.								100	100

Textile glass fiber is defined on page 114 of the June issue. The textile glass fiber producing capacity, in operable condition, is shown on an annual rate basis as of March 1982 (1982) and December 1983 (1983).

a. The data for East Europe do not include estimates for the U.S.S.R.

b. The Other Africa, Asia & Oceania countries are Australia, India and South Africa.

Textile Organon

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MONTHLY REVIEW

Highlights

U.S. Estimated Mill Consumption of Man-Made Fibers off 1½% in May ... see page 157.

World Man-Made Fiber Survey in Millions of Pounds ... begins page 147.

1981 World Production of Man-Made Fibers Totals 30,692 Million Pounds ... see page 147.

West European Production of Nylon and Polyester Yarn Up for 1981 ... see page 147.

Raymond Savadge Named T.E.B. President ... see page 146.

Shipments of nylon yarn+monofilaments to the carpet trades fell for the first time this year, though shipments of nylon industrial yarn rose in June.

Polyester textile yarn+monofilament shipments continued to decline, with June registering a 4-month low, but shipments of polyester industrial yarn reversed a 2-month slide.

Olefin yarn+monofilament shipments hit their highest level yet this year.

Acrylic+modacrylic staple+tow shipments rose for the third straight month, although shipments of nylon staple+tow fell for the first time since last November and polyester staple+tow shipments recorded the lowest monthly level since July of 1977.

ITEM	1982		a ^a	1981	b ^b	YEAR TO DATE		c ^c
	MAY	JUNE		JUNE		1982	1981	
TOTAL SHIPMENTS								
MILLION POUNDS & Percent								
MAN-MADE FIBER DATA								
YARN* MONOFILAMENTS								
ACETATE	16.5	17.4	+5.5	25.2	-31.0	107.0	142.7	-25.0
NYLON INDUSTRIAL	26.7	28.3	+6.0	34.3	-17.5	172.7	208.6	-17.2
LOW DENIER INDUSTRIAL	2.2	2.7	+22.7	3.3	-18.2	14.9	18.2	-18.1
CARPET	51.2	48.3	-5.7	61.3	-21.2	275.2	396.2	-30.5
TEXTILE	26.6	26.7	+0.4	37.3	-28.4	166.1	219.4	-24.3
POLYESTER INDUSTRIAL	22.9	27.4	+19.7	25.0	+9.6	151.4	153.3	-1.2
LOW DENIER INDUSTRIAL	1.9	2.1	+10.5	2.5	-16.0	11.5	14.8	-22.3
TEXTILE	79.3	78.3	-1.3	108.6	-27.9	497.5	640.7	-22.4
OLEFIN	48.5	52.0	+7.2	52.0	-	300.9	333.5	-9.8
TOTAL NONCELLULOSIC ABOVE	259.3	265.8	+2.5	324.3	-18.0	1590.2	1984.7	-19.0
STAPLE* TOW* FIBERFILL								
RAYON	27.7	29.9	+7.9	37.5	-20.3	177.6	233.9	-24.1
NYLON	61.0	58.1	-4.8	69.2	-16.0	321.0	436.1	-26.4
ACRYLIC*MODACRYLIC	57.5	59.2	+3.0	60.1	-1.5	323.9	372.6	-13.1
POLYESTER	156.6	155.3	-0.8	211.9	-26.7	997.3	1296.3	-23.1
OLEFIN*VINYLON	14.9	14.8	-0.7	11.7	+26.5	70.4	68.1	+3.4
TOTAL NONCELLULOSIC ABOVE	290.0	287.4	-1.0	352.9	-18.6	1712.6	2173.1	-21.8

a. Percent change from previous month to current month.

b. Percent change to current month from same month last year.

c. Percent change from cumulative total last year to cumulative total this year.

Also see footnotes on last page of this issue.

SAVADGE NAMED T.E.B. PRESIDENT

Raymond S. Savadge has been named president of the Textile Economics Bureau, Inc., publishers of the *Textile Organon*, the *Man-Made Fiber Producers' Handbook* and the *Man-Made Fiber Review*. He comes to T.E.B. from ITT Rayonier where he served as director of market research and business economics since 1978. His duties there included in-depth domestic and international market research studies, market forecasting and monitoring worldwide economic conditions to develop strategies capitalizing on present and future business opportunities.

He was affiliated with the International Paper Company from 1968 to 1978, serving as manager of market research and development. He holds a bachelor's degree in finance from Pennsylvania State University and a master's degree in marketing from Bernard M. Baruch College.

WORLD DATA IN MILLIONS OF POUNDS

The tables on pages 147-156 of this issue present the 1981 world man-made fiber production and producing capacity survey in millions of pounds. The included tables state the world data as converted to millions of pounds from thousand metric tons as found in the tables of the June *Organon*, pages 105 and 107-113, and the tables of the June Supplementary Issue, pages 137, 139-142 and 144.

NEW FRONT PAGE FORMAT

Beginning with this issue, the front page of the *Textile Organon* will present percent changes in U.S. monthly total shipment data in the form of a table. This new table, a composite of what had formerly been several pages worth of text, is found on the lower half of the front page and compares current monthly total shipment data not only with those of the previous month, but with those of the same month of last year as well. Year-to-date data are also supplied, including the current month as compared with the corresponding year-to-date data from the previous year.

In addition, a brief text synopsis about shipments is provided in the upper right-hand corner of the front page and presents the trends of the U.S. man-made fiber shipment markets in a concise and easily digestible manner, summarizing the current monthly data and placing them in the context of recent months and/or years.

The section at the upper left-hand corner of the front page, another new addition, is entitled "Highlights" and outlines many of the important items carried in the current issue of the *Organon* and directs the reader to the appropriate pages within the issue.

(Continued on page 150)

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Textile Organon

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TEXTILE, CARPET & INDUSTRIAL YARN

Following is a breakdown of West European production of nylon and polyester yarn for 1979, 1980 and 1981 (million pounds):

	NYLON			POLYESTER		
	1979	1980	1981	1979	1980	1981
Textile	721	655	641	752	637	657
Carpet	313	293	320			
Industrial	225	203	203	145	133	143
TOTAL	1259	1151	1164	897	780	800

Comparative U.S. data for the three years are as follows (million pounds):

	NYLON			POLYESTER		
	1979	1980	1981	1979	1980	1981
Textile	527	466	461	1343	1175	1260
Carpet	755	728	709			
Industrial	499	437	410	374	296	310
TOTAL	1781	1631	1580	1716	1461	1570

IMPORTS, EXPORTS & BALANCE

The by-country production, import, export and net available or retained supply of four categories of man-made fiber are tabulated on page 155 covering calendar 1980 only.

In the page 155 table, "yarn" includes tire cord and tire cord fabric, filament yarn and monofilaments. Staple includes tow, fiberfill, tops and advanced waste. Unprocessed waste is not included.

In a few cases where a country's import or export data could not be accurately separated as rayon+acetate versus non-cellulosic, a division was estimated.

Except for spun yarn, imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric, dresses, hosiery, etc.) are not included in the data.

The table presents the net import export tonnage of spun yarn under the "Total Man-Made Fiber" columns; space does not permit the presentation of import and export data separately.

WORLD PRODUCTION OF CERTAIN TEXTILE FIBERS

MILLION POUNDS & Percent

TYPE OF FIBER	1975	1976	1977	1978	1979	1980	1981
RAYON+ACETATE FIBERS (from page 152)							
YARN+MONOFILAMENTS	2,503	2,619	2,584	2,572	2,593	2,560	2,432
STAPLE+TOW	4,020	4,457	4,649	4,42	4,837	4,588	4,605
TOTAL RAYON+ACETATE	6,523	7,076	7,233	7,114	7,430	7,148	7,037
NON-CELLULOSIC FIBERS except Olefin (from page 150)							
YARN+MONOFILAMENTS	8,296	9,101	9,508	10,148	10,799	10,461	10,599
STAPLE+TOW	7,914	9,862	10,663	11,973	12,588	12,670	13,056
TOTAL NON-CELL. ABOVE	16,210	18,963	20,171	22,121	23,387	23,131	23,655
TOTAL MAN-MADE ABOVE	22,733	26,039	27,404	29,435	30,817	30,279	30,692
% of World Total	44	46	45	48	47	46	45
NATURAL FIBERS							
RAW COTTON	25,919	27,513	30,690	28,600	31,400	31,451	33,922
RAW WOOL	3,391	3,278	3,280	3,369	3,408	3,486	3,547
RAW SILK	104	106	108	112	121	123	126
TOTAL NATURAL ABOVE	29,414	30,897	34,078	32,081	35,049	35,060	37,595
% of World Total	56	53	55	52	53	54	55
WORLD TOTAL ABOVE	52,147	56,936	61,482	61,516	65,866	65,339	68,287
World Total %	100	100	100	100	100	100	100

The silk and man-made fiber data are on a calendar year basis, while the figures for cotton and wool are on a seasonal basis.

MAN-MADE FIBERS: Data are from pages 150 and 152, as noted. Textile glass fiber and olefin production on page 154 are not included.

COTTON: International Cotton Advisory Committee. Also see October 1981 *Organon*.

WOOL: Commonwealth Secretariat. The data are on a scoured basis. Also see the December 1981 *Organon* issue.

SILK: International Silk Association, Food and Agriculture Organization of the United Nations.

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY BY COUNTRY (EXCEPT OLEFIN)

MILLION POUNDS

	WEST EUROPE																				
	AUS-TRIA		BENELUX ^a				IRELAND (EIRE)			FIN- LAND		FRANCE				FED. REP. OF GERMANY			GREECE		
YEAR	S	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT				
1975	56.8	169.1	101.9	271.0	13.2	13.2	26.4	2.4	188.5	262.3	450.8	709.2	669.3	1378.5	11.9	0	11.9				
1976	60.4	186.3	136.2	322.5	13.9	19.8	33.7	1.8	231.7	316.8	548.5	813.5	860.7	1674.2	18.3	11.0	29.3				
1977	57.1	187.6	119.5	307.1	5.3	27.6	32.9	0.9	221.1	316.6	537.7	716.5	805.1	1521.6	17.0	16.5	33.5				
1978	67.0	208.8	105.8	314.6	18.3	57.3	75.6	1.1	202.2	341.1	543.3	718.7	889.3	1608.0	18.7	17.4	36.1				
1979	64.6	209.9	89.1	299.0	23.8	70.5	94.3	0.9	173.5	320.3	493.8	745.2	929.2	1674.4	20.3	20.9	41.2				
1980	56.0	158.5	71.4	229.9	22.0	69.9	91.9	0.9	144.0	279.3	423.3	700.4	887.1	1587.5	19.8	22.0	41.8				
1981	52.9	177.2	55.8	233.0	16.5	69.0	85.5	1.5	146.4	297.2	443.6	707.0	951.3	1658.3	19.8	22.9	42.7				
PRODUCING CAPACITY																					
1982	46.3	243.4	66.8	310.2	15.4	86.0	101.4	1.3	238.1	357.1	595.2	842.1	1104.5	1946.6	34.6	26.4	61.0				
1983	46.3	174.3	77.8	231.1	15.4	86.0	101.4	1.3	238.1	357.1	595.2	842.1	1104.5	1946.6	34.6	26.4	61.0				
WEST EUROPE (Continued)																					
	ITALY/MALTA				PORTUGAL			SPAIN			SWE- DEN		SWITZERLAND				TURKEY				
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	Y	S	TOT					
1975	253.5	356.9	610.4	3.1	12.6	15.7	100.3	162.5	262.8	2.0	98.8	45.6	144.4	41.7	62.4	104.1					
1976	288.1	542.1	830.2	3.7	22.3	26.0	119.3	208.1	327.4	2.2	108.9	60.2	169.1	40.8	97.4	138.2					
1977	261.0	466.7	727.7	3.3	36.6	39.9	121.5	230.6	352.1	0.2	108.0	63.3	171.3	33.1	144.4	177.5					
1978	259.9	521.4	781.3	3.5	57.5	61.0	134.0	284.6	418.6	0.2	109.8	73.6	183.4	48.7	133.6	182.3					
1979	279.1	515.0	794.1	3.7	64.4	68.1	158.1	311.7	469.8	0.2	108.2	66.1	174.3	66.1	169.8	235.9					
1980	275.3	506.8	782.1	3.1	70.8	73.9	143.1	314.1	457.2	0.2	133.8	52.2	186.0	61.7	154.3	216.0					
1981	329.8	631.2	961.0	3.1	75.0	78.1	159.4	372.4	531.8	0.2	135.8	48.5	184.3	58.4	143.3	201.7					
PRODUCING CAPACITY																					
1982	451.3	985.5	1436.8	3.3	90.4	93.7	227.9	448.0	676.5	0.4	170.9	75.0	245.9	145.5	318.6	464.1					
1983	451.3	985.5	1436.8	3.3	90.4	93.7	227.9	448.0	676.5	0.4	170.9	75.0	245.9	145.5	318.6	464.1					
W. EUROPE (Cont.)																					
EAST EUROPE																					
	UNITED KINGDOM				BULGARIA			CZECHOSLOVAKIA				GERMAN DEM. REP.				HUNGARY					
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT						
1975	405.6	390.4	796.0	23.6	68.3	91.9	97.7	41.7	139.4	108.0	138.4	246.4	6.2	17.6	23.8						
1976	441.1	472.0	913.1	28.7	63.7	92.4	108.0	43.2	151.2	112.4	146.8	259.2	7.1	17.6	24.7						
1977	389.6	401.5	791.1	27.6	69.4	97.0	101.4	50.7	152.1	116.8	156.5	273.3	7.1	28.9	36.0						
1978	398.8	497.1	895.9	28.7	72.8	101.5	108.0	55.1	163.1	117.9	163.1	281.0	7.3	34.0	41.3						
1979	377.9	462.3	840.2	28.7	77.2	105.9	110.2	48.5	158.7	120.4	171.7	292.1	7.1	32.6	39.7						
1980	277.6	356.5	634.1	28.2	81.6	109.8	119.0	49.4	168.4	125.7	180.8	306.5	12.8	30.4	43.2						
1981	219.1	329.4	548.5	27.5	86.0	113.5	122.4	55.3	177.7	128.2	185.2	313.4	15.4	31.5	46.9						
PRODUCING CAPACITY																					
1982	251.3	553.3	804.6	29.8	136.7	166.5	130.1	116.8	246.9	160.9	227.1	388.0	13.2	38.5	51.7						
1983	241.5	553.3	794.8	29.8	136.7	166.5	130.1	116.8	246.9	160.9	227.1	388.0	13.2	38.5	51.7						
EAST EUROPE (Continued)																					
	POLAND				ROMANIA			U.S.S.R.				YUGOSLAVIA				TOTAL EUROPE					
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT						
1975	117.7	143.3	261.0	37.5	149.0	186.5	504.9	293.2	798.1	11.9	31.7	43.6	2906.8	2997.1	5903.9						
1976	153.7	151.0	304.7	61.7	189.6	251.3	573.2	308.6	881.8	20.5	34.2	54.7	3334.9	3761.7	7096.6						
1977	179.0	144.4	323.4	65.9	209.4	275.3	584.2	421.1	1005.3	16.1	44.8	60.9	3161.2	3810.7	6971.9						
1978	187.8	147.5	335.3	66.1	220.5	286.6	606.3	440.9	1047.2	37.5	61.7	99.2	3282.3	4241.3	7523.6						
1979	192.7	145.3	338.0	77.2	231.5	308.7	601.9	447.5	1049.4	46.3	77.2	123.5	3351.4	4315.4	7666.8						
1980	208.3	151.0	359.3	72.7	227.2	299.9	703.4	509.3	1212.7	50.8	88.2	139.0	3261.3	4158.3	7419.6						
1981	173.6	86.4	260.0	75.1	229.3	304.4	688.9	553.3	1242.2	52.9	90.3	143.2	3258.0	4366.2	7624.2						
PRODUCING CAPACITY																					
1982	246.9	176.5	423.4	88.3	317.5	405.8	978.9	769.4	1748.3	94.8	152.1	246.9	4368.4	6093.1	10461.5						
1983	269.0	176.5	445.5	103.6	317.5	421.1	1049.4	769.4	1818.8	94.8	152.1	246.9	4454.3	6110.7	10565.0						

Y means yarn+monofilaments S means staple+ow+fiberfill
TOT means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1982 (1982) and December 1983 (1983).

These totals do not contain data for the fibers produced in North Korea.

a Benelux includes Belgium, Netherlands and Luxembourg.

**WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY (EXCEPT OLEFIN) (Continued)**

MILLION POUNDS

YEAR	OTHER AMERICAS															
	U.S.A.			ARGENTINA			BRAZIL			CANADA			CHILE			COSTA RICA
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y
1975	2766.0	2624.8	5390.8	58.0	43.7	101.7	176.6	100.3	276.9	141.8	69.4	211.2	7.5	4.2	11.7	0
1976	2790.7	3262.6	6053.3	51.1	37.0	88.1	215.0	135.8	350.8	140.7	72.3	213.0	8.8	6.6	15.4	*
1977	3120.0	3575.8	6695.8	53.8	34.8	88.6	210.8	141.5	352.3	152.8	95.9	248.7	8.8	4.9	13.7	*
1978	3233.7	3860.6	7094.3	48.9	37.5	86.4	233.0	164.2	397.2	159.2	112.2	271.4	9.7	3.3	13.0	4.4
1979	3515.2	4165.2	7680.4	65.3	49.8	115.1	270.1	201.5	471.6	161.2	106.9	268.1	11.0	5.3	16.3	4.4
1980	3112.0	4035.5	7147.5	47.1	28.4	75.5	300.8	209.4	510.2	163.1	105.8	268.9	11.0	5.5	16.5	6.6
1981	3172.0	4049.2	7221.2	35.3	18.3	53.6	253.5	191.4	444.9	145.3	96.8	242.1	11.0	5.5	16.5	6.6
PRODUCING CAPACITY																
1982	3662.1	4648.0	8250.1	99.2	70.5	169.7	323.0	249.9	562.9	262.3	121.7	384.0	23.1	9.3	32.4	14.3
1983	3679.3	4787.9	8467.2	99.2	81.6	180.8	323.3	249.9	562.9	262.3	121.7	384.0	23.1	9.3	32.4	14.3

	OTHER AMERICAS (Continued)																
	COLOMBIA			ECUA- DOR	GUA- TEMALA	MEXICO			PERU			URUGUAY			VENEZUELA		
YEAR	Y	S	TOT	Y	Y	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	45.2	15.0	60.2	0.7	0	25.1	104.3	341.7	12.3	30.0	42.3	2.2	0	2.2	22.7	11.2	33.9
1976	61.1	13.7	74.8	4.0	0	231.3	127.2	358.5	8.4	43.7	52.1	2.4	0	2.4	25.4	11.7	37.1
1977	72.1	13.4	85.5	5.1	0	265.4	144.6	410.0	12.3	42.3	54.6	2.4	*	2.4	25.8	12.6	38.4
1978	73.2	17.2	90.4	5.5	0	272.0	167.3	439.3	12.3	45.2	57.5	2.4	*	2.4	25.4	12.1	37.5
1979	63.3	17.6	80.9	7.5	*	300.0	205.0	505.0	15.4	46.3	61.7	2.4	5.3	7.7	25.8	13.4	39.2
1980	50.7	24.0	74.7	7.7	0	302.0	225.8	527.8	23.1	49.6	72.7	2.4	5.8	8.2	25.3	13.2	38.5
1981	44.5	24.7	69.2	7.7	0	295.6	237.2	532.8	22.3	46.5	68.8	2.0	4.6	6.6	24.7	13.2	37.9
PRODUCING CAPACITY																	
1982	94.1	30.9	125.0	10.6	4.4	463.1	315.6	878.7	25.2	53.9	79.1	2.4	7.5	9.9	33.9	15.2	49.1
1983	126.8	30.9	157.7	10.6	4.4	507.2	315.6	922.8	33.1	73.7	106.8	2.4	7.5	9.9	33.9	15.2	49.1

OTHER AFRICA, ASIA & OCEANIA																
YEAR	TOTAL OTHER AMERICAS			JAPAN			AUSTRALIA/N.Z.			BAN- GLADESH	PEOPLE'S REPUBLIC OF CHINA			Y	S	TOT
	Y	S	TOT	Y	S	TOT	Y	S	TOT		Y	S	TOT			
	Y	S	TOT	Y	S	TOT	Y	S	TOT		Y	S	TOT			
1975	704.4	378.1	1082.5	1058.2	1192.5	2250.7	43.0	2.6	45.6	0.9	28.9	71.9	100.8			
1976	746.2	446.0	1192.2	1220.7	1433.9	2654.6	41.1	2.2	43.3	0.9	33.1	81.6	114.7			
1977	809.3	490.0	1299.3	1301.2	1521.6	2822.8	38.6	2.6	41.2	0.7	39.7	92.6	132.3			
1978	846.0	559.0	1405.0	1386.7	1646.8	3033.5	39.9	2.4	42.3	1.1	66.1	235.0	301.1			
1979	926.4	651.1	1577.5	1391.5	1613.5	3005.0	36.2	1.1	37.3	0.4	99.2	282.2	381.4			
1980	939.8	667.5	1607.3	1379.4	1611.8	2991.2	28.7	*	28.7	0.7	145.5	449.8	595.3			
1981	848.5	638.2	1486.7	1338.2	1591.3	2929.5	22.0	0	22.0	0.4	180.8	533.1	713.9			
PRODUCING CAPACITY																
1982	1355.6	964.5	2320.1	1635.8	1889.3	3525.1	58.4	0	58.4	2.0	363.8	716.5	1080.3			
1983	1440.3	995.4	2435.7	1635.8	1889.3	3525.1	58.4	0	58.4	2.0	474.0	738.5	1212.5			

OTHER AFRICA, ASIA & OCEANIA (Continued)																
YEAR	EGYPT			INDIA			INDONESIA			IRAN			ISRAEL			TOT
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	
1975	0.7	1.1	1.8	44.3	29.3	73.6	7.9	9.3	17.2	15.0	0	15.0	8.8	12.3	21.1	
1976	1.3	1.3	2.6	53.4	43.4	96.8	24.3	55.1	79.4	19.2	0	19.2	12.6	13.7	26.3	
1977	1.8	0.9	2.7	56.4	47.6	104.0	38.1	82.0	120.1	18.7	0	18.7	12.8	12.3	25.1	
1978	1.8	0.9	2.7	72.3	56.7	129.0	47.0	100.1	147.1	19.8	*	19.8	19.6	13.7	33.3	
1979	3.3	0.9	4.2	78.9	61.3	140.2	50.0	110.9	160.9	11.0	0	11.0	21.8	14.1	35.9	
1980	4.0	11.0	15.0	87.5	67.9	155.4	91.5	118.8	210.3	9.9	0	9.9	23.1	14.5	37.6	
1981	4.4	11.0	15.4	110.9	87.7	198.6	102.3	121.5	223.8	8.8	0	8.8	23.1	15.0	38.1	
PRODUCING CAPACITY																
1982	19.8	55.1	74.9	141.3	114.1	255.4	176.4	129.2	305.6	53.3	83.1	136.4	28.7	17.6	46.3	
1983	19.8	55.1	74.9	203.0	181.8	384.8	176.4	129.2	305.6	53.3	83.1	136.4	28.7	17.6	46.3	

**WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY
BY COUNTRY (EXCEPT OLEFIN) (Continued)**

MILLION POUNDS

YEAR	OTHER AFRICA, ASIA & OCEANIA (Continued)																	SINGAPORE
	KENYA			KOREA, REP. OF			MALAY SIA	NIGERIA			PAKISTAN			PHILIPPINES				
	Y	S	TOT	Y	S	TOT	S	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	
1975	0	0	0	264.6	314.6	579.2	22.0	0	0	0	4.0	0	4.0	24.3	17.2	41.5	*	
1976	0	0	0	311.5	370.4	681.9	33.1	0	0	0	5.3	0	5.3	30.9	17.2	48.1	0	
1977	0	0	0	358.2	413.1	771.3	66.1	0	*	*	4.9	0	4.9	32.8	17.2	50.0	0	
1978	0	0	0	458.6	494.9	953.5	72.8	*	6.6	6.6	4.2	0	4.2	35.3	19.0	54.3	0	
1979	*	0	*	522.9	529.3	1052.2	77.2	6.6	8.8	15.4	4.4	0	4.4	55.1	25.6	80.7	0	
1980	2.2	0	2.2	562.6	619.9	1182.5	79.4	5.5	5.5	11.0	3.3	0	3.3	66.2	30.9	97.1	0	
1981	2.2	0	2.2	625.7	719.6	1345.3	79.4	5.9	5.5	11.4	3.3	0	3.3	70.5	33.1	103.6	0	
PRODUCING CAPACITY																		
1982	17.6	11.9	29.5	606.6	749.3	1345.9	83.3	11.0	11.0	22.0	53.9	52.9	106.8	88.2	39.7	127.9	0	
1983	17.6	11.9	29.5	804.7	782.2	1586.9	83.3	11.0	11.0	22.0	60.6	52.9	113.5	88.2	39.7	127.9	0	

YEAR	OTHER AFRICA, ASIA & OCEANIA (Continued)													WORLD TOTAL EXCEPT OLEFIN				
	SOUTH AFRICA			SRI LANKA		TAIWAN			THAILAND			TOTAL OTHER A, A & O						
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	45.0	10.6	55.6	0	32.7	189.4	517.2	45.6	40.6	86.2	860.8	720.9	1581.7	8296.2	7913.4	16209.6		
1976	40.4	28.7	69.1	0	35.3	246.3	600.6	50.9	64.8	121.7	1008.2	957.8	1966.0	9100.7	9862.0	18962.7		
1977	56.7	29.8	86.5	0	386.7	416.7	803.4	69.9	84.0	153.9	1116.0	1264.9	2380.9	9507.7	10663.0	20170.7		
1978	64.8	36.4	101.2	0	492.7	530.6	1023.3	76.5	96.1	172.6	1399.7	1665.2	3064.9	10148.4	11972.9	22121.3		
1979	71.0	43.0	114.0	0	566.1	583.1	1149.2	87.5	105.6	193.1	1614.4	1843.1	3457.5	10798.9	12588.3	23387.2		
1980	73.8	44.1	117.9	0	583.3	646.6	1229.8	80.5	109.1	189.6	1768.3	2197.4	3965.7	10460.8	12670.5	23131.3		
1981	74.1	44.1	118.2	1.8	657.4	636.7	1294.1	89.2	124.0	213.2	1982.8	2410.7	4393.5	10599.5	13055.6	23655.1		
PRODUCING CAPACITY																		
1982	94.8	48.5	143.3	5.9	874.6	813.7	1688.3	67.1	93.3	160.4	2753.4	3019.2	5772.6	13715.3	16614.1	30329.4		
1983	94.8	48.5	143.3	5.9	874.6	813.7	1688.3	89.2	124.0	212.8	3062.2	3172.1	6234.3	14221.9	16955.4	31177.3		

(Continued from page 145)

This new front page format, it should be noted, will be used for all issues of the *Textile Organon*, with the exception of the June (World Man-Made Fiber Survey) and November (U.S. End Use Survey) issues.

The editors are confident that this new format will make the *Organon* easier to use, more readable and convenient for reference.

T.E.B. CIRCULATION MANAGER RETIRES

Dorothy A. Driscoll retired in July after more than 37 years as circulation manager for the Textile Economics Bureau, Inc.

The Bureau's staff joins her friends in the industry in wishing her a long and happy retirement.

BOOK REVIEW

Weaving: Conversion of Yarn to Fabric (Second Edition)
P.R. Lord and M.H. Mohamed. Merrow Publishing Co. Ltd. I.S.A. Building,
Dale Road Industrial Estate, Shildon, Co. Durham, DL4 2QZ. England. 402
pages, 150 illustrations. Softcover. 1982. \$19.80 (£9.50). Distributed by
Meadowfield Press Ltd. at the above address.

This book is intended to be a standard work on the production of woven fabrics. The authors consider not only the design and operation of the loom itself, but also the preparation of yarns and packages, the design and structure of the fabrics produced and the management aspects of weaving as an industrial process. The sequence of processes used in producing woven fabrics is considered against a background of the historical development of weaving. There is a glossary of terms which is cross-referenced to the text and to an extensive list of cited literature. For this second edition metric units have been introduced in addition to Imperial units.

Like the first edition, this volume will be a valuable addition to any textile library. The information provided should be relevant for many years, while the references provided enable the reader to study any listed topic in depth.

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY BY COUNTRY MILLION POUNDS

WEST EUROPE																	
AUSTRIA			BELGIUM/ NETHERLANDS			FINLAND			FRANCE			FED. REP. OF GERMANY			GREECE		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	
1975	22.5	163.1	185.6	77.8	24.6	101.4	1.5	64.8	66.3	61.9	121.9	183.8	107.6	94.8	202.4	15.0	
1976	33.1	196.0	229.1	86.0	47.2	133.2	2.0	68.8	70.8	53.8	132.9	186.7	146.2	112.4	258.6	14.8	
1977	27.8	198.8	226.6	79.8	50.7	130.5	2.6	87.7	90.3	45.9	133.8	179.7	140.4	101.4	241.8	15.9	
1978	24.9	211.6	236.5	79.4	52.0	131.4	2.6	94.4	97.0	42.5	121.7	164.2	131.6	108.0	239.6	15.9	
1979	26.4	217.8	244.2	79.6	59.3	138.9	2.6	105.8	108.4	40.8	129.8	170.6	128.1	110.2	238.3	15.9	
1980	33.7	221.8	255.5	82.5	48.5	131.0	1.3	104.1	105.4	36.1	109.4	145.5	143.7	101.4	245.1	15.9	
1981	33.5	224.0	257.5	85.1	32.2	117.3	0	102.7	102.7	24.2	94.6	118.8	143.3	110.2	253.5	15.9	
PRODUCING CAPACITY																	
1982	35.3	233.7	269.0	96.8	66.1	162.9	0	127.9	127.9	22.1	143.3	165.4	152.1	121.3	273.4	16.5	
1983	35.3	233.7	269.0	96.8	99.2	136.0	0	134.5	134.5	22.1	143.3	165.4	149.9	121.3	271.2	16.5	
WEST EUROPE (Continued)																	
ITALY			NOR- WAY			PORTUGAL			SPAIN			SWEDEN			SWIT- ZERLAND		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S
1975	91.0	102.1	193.1	40.6	5.3	2.4	7.7	36.2	78.9	115.1	2.4	40.8	43.2	8.2	0.7	8.1	8.8
1976	103.0	131.8	234.8	57.5	5.5	3.1	8.6	34.4	90.4	124.8	0	67.0	67.0	9.7	0.7	8.6	9.4
1977	97.9	137.3	235.2	54.2	5.7	3.1	8.8	33.1	95.0	128.1	0	73.0	73.0	10.4	0.7	8.8	9.5
1978	86.6	104.4	191.0	62.6	3.6	2.6	7.2	30.4	102.7	133.1	0	81.3	81.3	9.0	0.7	8.8	9.5
1979	84.6	86.0	170.6	64.6	5.5	3.7	9.2	27.8	99.9	127.7	0	81.3	81.3	7.3	0.7	13.2	13.9
1980	80.7	60.6	141.3	62.6	6.0	1.5	7.5	28.2	88.4	116.6	0	76.9	76.9	4.0	0.7	11.0	11.7
1981	77.4	53.8	131.2	62.6	6.4	2.2	8.6	27.8	83.3	111.1	0	76.5	76.5	3.3	0.7	11.0	11.7
PRODUCING CAPACITY																	
1982	116.8	77.2	194.0	70.5	8.8	11.9	20.7	37.7	135.8	173.5	0	99.2	99.2	11.0	1.1	11.0	12.1
1983	116.8	77.2	194.0	70.5	8.8	11.9	20.7	37.7	135.8	173.5	0	99.2	99.2	11.0	1.1	11.0	12.1
WEST EUROPE (Continued)																	
UNITED KINGDOM			TOTAL WEST EUROPE			BULGARIA			CZECHOSLOVAKIA			GERMAN DEM. REP.			HUN- GARY		
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S
1975	137.8	279.3	417.1	565.9	1020.4	1586.3	5.5	41.9	47.4	47.2	109.3	156.5	72.5	298.9	371.4	19.4	
1976	155.6	261.5	417.1	644.8	1177.2	1822.0	6.6	52.0	58.6	48.3	110.9	159.2	79.8	301.6	381.4	19.8	
1977	138.0	250.4	388.4	598.2	1194.2	1792.4	6.6	56.7	63.3	48.5	111.5	160.0	79.4	288.8	368.2	20.1	
1978	131.6	274.3	405.9	559.8	1223.4	1783.2	7.0	61.3	68.3	47.4	109.1	156.5	75.0	284.8	359.8	19.8	
1979	130.5	306.9	437.4	549.8	1278.5	1828.3	7.0	66.2	73.2	48.5	99.2	147.7	77.2	286.6	363.8	19.0	
1980	80.9	241.0	321.9	513.7	1127.2	1640.9	7.3	72.7	80.0	43.7	76.9	120.6	80.5	291.0	371.5	19.8	
1981	59.5	225.8	285.3	477.1	1078.9	1556.0	7.3	73.4	80.7	40.3	79.4	119.7	82.0	282.2	364.2	16.5	
PRODUCING CAPACITY																	
1982	79.4	254.6	334.0	577.6	1352.5	1930.1	11.0	92.6	103.6	55.1	125.7	180.8	84.8	319.7	404.5	22.0	
1983	79.4	254.6	334.0	575.4	1332.2	1907.6	11.0	92.6	103.6	55.1	125.7	180.8	84.8	319.7	404.5	22.0	
EAST EUROPE (Continued)																	
POLAND			ROMANIA			U.S.S.R.			YUGOSLAVIA			TOTAL EAST EUROPE					
YEAR	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S
1975	62.4	148.6	211.0	30.9	107.8	138.7	620.4	681.2	1301.6	30.9	110.0	140.9	869.8	1517.1	2386.9		
1976	63.3	147.5	210.8	24.3	118.8	143.1	630.7	718.3	1349.0	33.3	110.2	143.5	886.3	1579.1	2465.4		
1977	63.1	147.9	211.0	19.8	111.1	130.9	650.4	736.3	1386.7	32.8	123.5	156.3	900.6	1595.9	2496.5		
1978	61.7	144.2	205.9	20.9	116.8	137.7	661.4	738.5	1399.9	33.1	125.7	158.8	906.5	1600.2	2506.7		
1979	59.9	124.8	184.7	21.4	121.2	142.6	657.0	742.9	1399.9	34.1	127.9	162.0	905.1	1587.8	2492.9		
1980	56.0	154.7	190.5	20.9	119.1	140.0	672.4	760.6	1433.0	33.0	127.9	160.9	913.8	1602.5	2516.3		
1981	43.0	97.9	140.9	21.2	121.2	142.4	657.0	761.7	1418.7	33.0	127.9	160.9	883.8	1560.2	2444.0		
PRODUCING CAPACITY																	
1982	69.5	157.6	227.1	22.1	121.2	143.3	749.6	778.2	1527.8	37.5	132.3	169.8	1020.6	1749.3	2778.9		
1983	69.5	157.6	227.1	22.1	121.2	143.3	749.6	778.2	1527.8	37.5	132.3	169.8	1020.6	1749.3	2778.9		

Y means yarn+monofilaments. S means staple+tow. TOT means total.

The producing capacity, in operable condition, is shown on an annual basis as of March 1982 (1982) and December 1983 (1983).

These totals do not include data for the Indonesian pilot plant

nor production of cellulosic fibers in North Korea.

Production and producing capacity by country, divided between rayon and acetate yarn, is given on page 153. Also note page 154 for data on production of acetate staple and cigarette tow.

WORLD RAYON+ACETATE PRODUCTION & PRODUCING CAPACITY
BY COUNTRY (Continued)
 MILLION POUNDS

YEAR	OTHER AMERICAS											
	U.S.A.			ARGENTINA			BRAZIL			CANADA		
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	S	TOT
1975	366.1	382.9	749.0	16.1	15.9	32.0	67.7	40.8	108.5	28.9	32.2	61.1
1976	354.5	486.4	840.9	11.7	11.0	22.7	75.4	45.4	118.8	12.6	46.7	59.3
1977	352.7	535.0	887.7	12.1	12.6	24.7	63.5	47.8	111.3	24.2	57.8	82.0
1978	362.9	541.6	904.5	9.7	8.4	18.1	53.1	49.4	102.5	27.1	59.1	86.2
1979	373.4	556.4	929.8	11.2	10.4	21.6	53.8	56.2	110.0	31.1	69.0	100.1
1980	355.6	450.4	806.0	4.4	3.3	7.7	57.3	55.8	113.1	30.9	66.1	97.0
1981	305.6	464.5	770.1	2.2	0	2.2	46.3	55.8	102.1	29.7	62.2	91.9

PRODUCING CAPACITY

1982	475.9	513.9	889.8	22.0	22.1	44.1	55.6	63.5	119.1	31.9	74.1	106.0
1983	475.9	513.9	889.8	22.0	22.1	44.1	55.6	63.5	119.1	31.9	74.1	106.0

YEAR	OTHER AMERICAS (Continued)											
	COLOMBIA			CUBA			MEXICO			PERU	URU- GUAY	VENE- ZUELA
	Y	S	TOT	Y	S	TOT	Y	S	TOT	Y	Y	Y
1975	8.6	3.7	12.3	5.1	8.1	13.2	40.6	26.0	66.6	3.9	2.4	7.3
1976	7.5	0	7.5	5.5	7.7	13.2	43.0	25.1	68.1	4.6	2.4	6.2
1977	7.3	0	7.3	5.3	8.1	13.4	41.2	19.4	60.6	2.9	2.6	6.6
1978	7.5	0	7.5	5.1	8.1	13.2	37.9	23.1	61.0	2.4	2.9	6.6
1979	7.5	0	7.5	5.3	8.4	13.7	37.7	22.7	60.4	2.9	3.1	6.6
1980	5.3	0	5.3	4.8	8.4	13.2	37.0	24.3	61.3	3.3	2.9	6.2
1981	4.0	0	4.0	4.8	8.4	13.2	36.6	24.9	61.5	2.9	2.2	6.2

PRODUCING CAPACITY

1982	7.7	0	7.7	6.6	11.0	17.6	48.1	26.4	74.5	4.8	3.1	7.9
1983	7.7	0	7.7	6.6	11.0	17.6	48.1	26.4	74.5	4.8	3.1	7.9

YEAR	OTHER AFRICA, ASIA & OCEANIA											
	JAPAN			AUS- TRALIA	BAN- GLADESH	PEOPLE'S REPUBLIC OF CHINA	EGYPT			INDIA		
	Y	S	TOT	Y	Y	Y	Y	S	TOT	Y	S	TOT
1975	227.5	563.5	791.0	6.6	3.5	10.0	134.5	134.5	269.0	139.5	147.9	287.4
1976	241.0	551.8	792.8	0	2.0	121.2	154.3	275.5	429.7	139.7	184.5	324.2
1977	236.8	601.2	838.0	0	3.1	134.5	169.7	304.2	473.9	137.7	192.0	329.7
1978	242.0	616.0	858.0	0	6.6	143.3	176.4	319.7	496.1	132.6	202.8	335.4
1979	252.0	640.2	892.2	0	9.0	149.9	187.4	337.3	527.3	128.8	203.2	332.0
1980	263.0	612.9	875.9	0	7.7	165.4	209.4	374.8	584.2	132.6	164.7	297.3
1981	261.6	603.0	864.6	0	6.6	176.4	231.5	407.9	639.3	132.6	188.3	320.9

PRODUCING CAPACITY

1982	299.8	699.3	999.1	0	11.9	220.5	280.6	507.1	154	11.9	27.4	146.6
1983	299.8	699.3	999.1	0	11.9	220.5	280.6	507.1	154	11.9	27.4	146.6

YEAR	OTHER AFRICA, ASIA & OCEANIA (continued)													WORLD TOTAL			
	IRAQ			REPUBLIC OF KOREA			PAKI-STAN	TAIWAN			THAI-LAND	TOTAL OTHER A, A & O					
	Y	S	TOT	Y	S	TOT	Y	Y	S	TOT	S	Y	S	TOT	Y	S	TOT
1975	6.6	12.1	18.7	21.6	0	21.6	6.4	5.9	102.5	108.4	0	292.0	404.3	696.3	2503.4	4019.8	6523.2
1976	6.6	12.1	18.7	31.3	15.6	46.9	5.7	6.8	144.2	151.0	4.4	321.1	522.1	843.2	2618.8	4457.1	7075.9
1977	6.2	11.7	17.9	28.2	21.4	49.6	5.7	6.6	146.8	153.4	23.6	327.8	570.5	898.3	2583.8	4648.9	7232.7
1978	6.6	12.1	18.7	28.0	22.0	50.0	5.1	6.8	154.1	160.9	29.8	347.2	605.4	952.6	2572.4	4742.0	7314.4
1979	6.4	11.9	18.3	29.1	22.9	52.0	4.4	6.6	154.3	160.9	33.3	351.6	622.2	973.8	2593.3	4858.4	7451.5
1980	6.6	12.1	18.7	27.3	33.1	60.4	6.0	6.6	166.0	172.6	36.2	360.0	630.3	990.3	2560.4	4587.8	7148.2
1981	6.6	12.1	18.7	28.2	30.6	58.8	5.3	6.6	213.2	219.8	36.2	366.2	740.7	1106.9	2431.4	4605.2	7036.6

PRODUCING CAPACITY

1982	7.7	14.3	22.0	30.2	62.0	92.2	7.3	8.8	194.0	202.8	33.3	448.4	851.0	1301.4
1983	7.7	14.3	22.0	30.2	62.0	92.2	7.3	8.8	194.0	202.8	36.2	448.4	916.5	1364.0

2922.4	5177.0	8099.4
2920.2	5673.8	8594.0

RAYON VS. ACETATE FILAMENT YARN PRODUCTION & PRODUCING CAPACITY BY COUNTRY MILLION POUNDS

YEAR	WEST EUROPE																					
	AUS-TRIA		BELGIUM/NETHERLANDS			FRANCE			FED. REP. OF GERMANY			ITALY			SPAIN			SWE-DEN	UNITED KINGDOM			
	H	R	H	R	A	H	R	A	H	R+C	A	H	R+C	A	H	R	A	H	H	R	A	
1975	15	7	28	37	13	28	27	7	55	46	7	20	40	31	12	20	4	2	41	27	70	
1976	24	9	38	37	11	20	29	5	84	53	5	24	39	40	13	17	4	0	43	39	74	
1977	20	8	38	31	11	18	28	0	84	53	4	24	34	40	15	13	5	0	37	27	74	
1978	18	7	34	32	13	20	22	0	77	51	4	25	25	37	13	11	6	0	33	22	76	
1979	18	8	30	34	15	21	20	0	72	52	4	25	19	41	11	10	7	0	24	23	83	
1980	24	9	33	35	13	18	20	0	88	53	2	24	11	46	14	9	7	0	2	4	75	
1981	24	9	35	35	13	4	20	0	86	55	2	24	11	42	14	7	7	0	0	0	60	
PRODUCING CAPACITY																						
1982	26	9	42	38	18	0	22	0	95	55	2	26	40	51	20	11	7	0	0	0	79	
1983	26	9	42	38	18	0	22	0	95	55	0	26	40	51	20	11	7	0	0	0	79	
YEAR	W. EUROPE (Cont.)						EAST EUROPE															
	OTH-ER ^a		TOTAL WEST EUROPE		BUL-GARIA	CZECHO-SLOVAKIA	GERMAN DEM. REP.		POLAND		ROMANIA		U.S.S.R.		YUGOSLAVIA		TOTAL EAST EUROPE					
	R	H	R+C	A	R	H	R	H	R	H	R	H	R	H	R+C	A	H	R	H	R+C	A	
1975	29	201	233	132	6	21	26	28	44	17	45	22	9	351	165	104	15	17	454	312	104	
1976	33	250	256	139	7	20	28	31	49	17	46	15	9	352	170	108	15	18	451	327	108	
1977	34	236	228	134	7	21	27	29	50	17	46	13	7	364	176	110	15	18	459	331	110	
1978	34	220	204	136	7	22	25	29	46	18	44	13	8	364	176	121	15	18	461	324	121	
1979	33	201	199	150	7	22	27	29	48	16	44	13	8	360	176	121	16	18	456	328	121	
1980	27	203	168	143	6	20	24	31	51	15	40	13	9	364	187	121	15	18	458	335	121	
1981	29	187	166	124	6	18	22	31	51	11	33	13	9	359	176	121	16	18	448	315	121	
PRODUCING CAPACITY																						
1982	37	209	212	157	11	24	31	33	53	18	50	13	9	375	220	154	18	20	481	394	154	
1983	37	209	212	155	11	24	31	33	53	18	50	13	9	375	220	154	18	20	481	394	154	
YEAR	OTHER AMERICAS																					
	U.S.A.			ARGENTINA			BRAZIL			CAN-ADA	CHILE	COLOMBIA			CUBA		MEXICO			PERU	URU-GUAY	VENE-ZUELA
	H	R+C	A	H	R	A	H	R	A	A	R	R	A	H	R	H	R	A	R	A	A	A
1975	46	19	301	2	9	5	29	25	14	29	2	1	7	5	+	6	15	20	2	2	2	7
1976	53	15	287	2	7	3	34	27	14	13	2	0	7	6	+	7	15	21	2	3	2	6
1977	55	16	282	3	7	2	25	26	13	24	2	0	7	5	+	6	15	20	2	1	3	7
1978	47	15	301	3	5	2	18	27	8	27	2	0	7	5	+	5	14	19	+	2	3	7
1979	42	15	316	3	6	2	16	31	7	31	2	0	7	5	+	6	14	18	+	3	3	7
1980	31	15	309	2	2	+	13	36	9	31	2	0	4	4	+	7	13	18	0	4	2	7
1981	32	15	258	0	+	2	9	31	7	29	2	0	4	4	+	7	13	18	0	2	2	7
PRODUCING CAPACITY																						
1982	42	15	319	4	11	6	11	35	11	31	4	0	7	7	+	11	16	22	0	4	2	9
1983	42	15	319	4	11	6	11	35	11	31	4	0	7	7	+	11	16	22	0	4	2	9
YEAR	OTHER AFRICA, ASIA & OCEANIA																					
	TOTAL OTHER AMERICAS			JAPAN			AUS-TRALIA		INDIA			PAKI-STAN	REP. OF KOREA	OTH-ER ^b	TOTAL OTHER A, A & O			WORLD TOTAL				
	H	R	A	H	R+C	A	H	A	H	R	A	A	R	A	R	H	R	A	H	R+C	A	
1975	42	54	86	10	164	53	3	4	42	73	4	6	18	4	138	45	229	18	798	1011	694	
1976	49	53	69	10	167	64	0	0	38	91	4	6	26	5	151	38	268	15	851	1086	682	
1977	39	52	77	9	163	65	0	0	37	88	5	6	23	5	164	37	275	16	835	1065	684	
1978	31	48	75	9	172	61	0	0	39	94	5	5	23	5	176	39	293	15	807	1056	709	
1979	30	53	78	8	176	68	0	0	36	92	5	4	24	5	186	36	302	14	773	1073	747	
1980	26	53	75	7	185	71	0	0	31	93	5	7	22	4	198	31	313	16	756	1069	735	
1981	20	46	71	9	181	72	0	0	31	88	5	4	24	4	210	31	322	13	727	1045	659	
PRODUCING CAPACITY																						
1982	33	66	92	22	203	75	0	0	44	95	7	7	26	4	265	44	386	18	831	1276	815	
1983	33	66	92	22	203	75	0	0	44	95	7	7	26	4	265	44	386	18	831	1276	815	

H means high tenacity (tire & industrial type) viscose rayon yarn. R means regular+intermediate tenacity viscose rayon yarn. C means cuprammonium rayon yarn. A means acetate+triacetate yarn.

a. "Other West Europe" comprises Finland, Greece, Portugal, Switzer-

land and Turkey.

b. "Other Africa, Asia & Oceania" comprises Bangladesh, People's Republic of China, Egypt, Iraq and Taiwan.

WORLD OLEFIN FIBER PRODUCTION

MILLION POUNDS

COUNTRY	1975	1976	1977	1978	1979	1980	1981
WEST EUROPE							
BELUX ^a	49	75	90	108	123	126	145
DENMARK	17	15	27	51	33	51	31
FRANCE	55	77	57	66	54	59	62
GERMANY, FED. REP. OF	79	102	113	115	126	117	123
IRELAND (EIRE)	9	13	13	11	13	20	20
ITALY	115	121	117	130	135	126	137
UNITED KINGDOM	135	157	174	176	181	176	179
SUBTOTAL EEC	459	560	591	637	664	655	697
AUSTRIA	26	33	33	30	41	39	39
FINLAND	4	7	7	7	7	7	7
GREECE, CYPRUS	9	13	17	20	22	20	20
NORWAY	9	9	7	7	9	9	9
PORTUGAL	44	48	50	86	84	88	83
SPAIN	31	46	77	79	81	83	83
SWEDEN	4	7	7	7	7	7	7
SWITZERLAND	7	7	7	7	7	7	7
TURKEY	11	11	11	13	11	11	11
TOTAL W. EUROPE	604	741	816	902	933	926	963
EAST EUROPE							
CZECHOSLOVAKIA	22	24	26	24	26	24	24
HUNGARY	13	13	18	22	29	33	35
POLAND	13	24	29	31	29	31	33
U.S.S.R.	7	18	26	26	33	33	33
U.S.A.							
YARN+MONOFIL	262	295	304	315	333	324	320
STAPLE	53	60	79	95	119	112	130
FILM FIBER	181	220	249	282	308	309	326
OTHER AMERICAS							
ARGENTINA	13	20	22	24	24	22	22
BRAZIL	44	59	73	88	86	88	88
CANADA	73	66	70	68	71	60	60
CHILE	0	0	0	2	2	2	2
EL SALVADOR							
GUATEMALA	2	2	4	4	4	4	4
HONDURAS							
MEXICO	11	15	37	40	44	48	51
NICARAGUA	7	2	2	2	2	2	2
PERU ^c	7	9	11	11	11	11	13
URUGUAY	4	4	4	2	2	2	4
JAPAN							
YARN+MONOFIL	24	31	33	35	40	35	31
STAPLE	66	62	55	60	64	60	57
FILM FIBER	88	97	99	NA	NA	NA	NA
OTHER AFRICA, ASIA & OCEANIA							
AUSTRALIA	33	35	37	40	44	44	44
KOREA, REP. OF	11	11	13	15	18	9	7
PHILIPPINES	4	4	2	4	4	4	4
SOUTH AFRICA	22	22	20	7	7	7	7
TAIWAN	13	13	46	57	55	55	55
OTHER	0	0	4	4	4	4	4

WORLD ACETATE STAPLE PRODUCTION & CAPACITY

MILLION POUNDS

COUNTRY	PRODUCTION							CAPACITY	
	1975	1976	1977	1978	1979	1980	1981	1982	1983
U.K.	2.6	1.8	1.5	1.1	1.1	0.7	0.4	1.1	1.1
U.S.A.	12.0	11.0	8.0	7.0	7.0	7.0	4.0	7.9	7.9
CANADA	3.5	2.6	3.7	1.3	0	0	0	0	0
INDIA	0.7	0.3	0.4	0.9	0.9	0.2	0.7	1.8	1.8
WORLD TOTAL	18.8	16.3	13.6	10.3	9.0	7.9	5.1	10.8	10.8

ESTIMATED WORLD CIGARETTE TOW PRODUCTION

MILLION POUNDS

AREA	1975	1976	1977	1978	1979	1980	1981
EUROPE ^a	108	130	148	168	163	163	178
U.S.A.	287	302	322	331	366	408	419
OTHER AMER ^b	57	60	60	66	73	77	79
ASIA ^c	79	82	86	88	90	90	94
WORLD TOTAL	531	574	616	653	692	738	769

- a. Belgium, Fed. Rep. of Germany, U.S.S.R. & United Kingdom
 b. Brazil, Canada, Colombia, Mexico & Venezuela
 c. Japan and Rep. of Korea

WORLD TEXTILE GLASS FIBER PRODUCTION & PRODUCING CAPACITY

MILLION POUNDS

COUNTRY	PRODUCTION							CAPACITY	
	1975	1976	1977	1978	1979	1980	1981	1982	1983
WEST EUROPE	386	494	644	673	683	661	611	750	750
EAST EUROPE ^a								110	110
U.S.A.	547	677	787	924	1014	867	1040	1695	1803
OTHER AMERICAS	46	57	57	59	62	66	68	88	88
JAPAN	143	241	280	322	392	368	384	425	503
OTHER A.A. & O ^b	13	27	29	27	27	29	31	60	64
TOTAL ABOVE	1135	1486	1797	2002	2178	1991	2134	3128	3318
CHINA								119	110
U.S.S.R.								220	220

Textile glass fiber is defined on page 114 of the June *Organon*. The textile glass fiber producing capacity, in operable condition, is shown on an annual rate basis as of March 1982 (1982) and December 1983 (1983).

- a. The data for East Europe do not include estimates for the U.S.S.R.
 b. The Other Africa, Asia & Oceania countries are Australia, India and South Africa.

The olefin data shown comprise (a) the poundages of yarn, monofilaments and staple plus film fiber reported by official sources, such as governments, trade associations or other statistical agents plus (b) estimates of the additional poundages of olefin fiber not included in the aforementioned data. Note text on page 144 of the June *Organon* Supplement.

No attempt is made to strike a world total inasmuch as data are incomplete for a number of countries, particularly in Latin America, East Europe and Other Africa, Asia & Oceania.

1980 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

MILLION POUNDS

COUNTRY & AREA	RAYON+ACETATE YARN				RAYON+ACETATE STAPLE				NON-CELLULOSIC YARN				NON-CELLULOSIC STAPLE				TOTAL MAN-MADE FIBERS					NET AVAIL
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMPORT	EXPORT	R+A SPUN	N-C SPUN	
WEST EUROPE																						
AUSTRIA	53.7	7.5	27.5	13.7	221.8	10.1	176.3	55.6	0	56.4	7.9	48.5	56.0	34.8	31.5	59.3	311.5	108.8	243.2	25.8	13.6	137.7
BELUX	82.5	40.0	90.2	22.3	48.5	67.0	64.4	51.1	158.5	287.3	237.9	207.9	71.4	219.1	147.1	143.4	560.9	603.4	539.6	+24.5	+52.2	501.4
IRELAND (EIRE)	0	0.9	0.7	0.2	0	1.3	1.1	0.2	22.0	43.2	13.7	51.5	69.9	61.7	4.2	127.4	91.9	107.1	19.7	-0.6	+3.3	182.0
FINLAND	1.3	2.9	1.3	2.9	104.1	6.0	98.7	11.4	0.9	25.8	2.2	24.5	0	26.5	0	26.5	106.3	61.2	102.2	+2.9	+8.1	76.3
FRANCE	36.1	59.5	46.3	29.3	109.4	33.5	15.2	127.7	144.0	179.0	144.4	178.6	279.3	123.9	128.1	275.1	568.8	375.9	334.0	-5.1	-2.8	602.8
GERMANY FED REP OF	145.7	61.1	95.0	109.8	101.4	78.5	64.4	115.5	700.4	219.6	504.8	355.2	887.1	190.7	630.5	456.3	1832.6	558.9	1354.7	+4.8	+20.7	1062.3
GREECE	15.9	2.0	7.3	10.6	0	6.0	0.2	5.8	19.8	13.0	2.6	30.2	22.0	52.0	7.5	56.5	5.7	73.0	17.6	0	0	113.1
ITALY MALTA	80.7	51.1	27.1	104.7	60.6	64.2	5.7	119.1	275.3	127.9	204.6	198.6	506.8	262.8	278.2	491.4	923.4	506.0	515.6	11.7	-87.1	815.0
NORWAY	0	2.0	0	2.0	62.6	2.2	51.4	13.4	0	15.7	1.5	14.2	0	9.0	0	9.0	62.6	28.9	52.9	+0.9	+4.4	43.9
PORTUGAL	6.0	4.4	1.1	9.5	1.5	23.8	0	25.3	3.1	38.6	4.9	36.8	70.8	31.1	3.3	98.6	81.4	97.9	9.3	-3.3	+17.9	184.6
SPAIN	26.2	3.5	5.7	26.0	88.4	22.9	22.3	89.0	143.1	35.9	19.6	159.4	314.1	118.0	89.1	543.0	573.8	180.3	136.7	-4.4	24.5	588.5
SWEDEN	0	5.9	0.7	5.2	76.9	10.8	68.6	19.1	0.2	41.2	6.8	34.6	0	17.9	0	17.9	77.1	75.8	76.1	+1.3	+7.7	85.8
SWITZERLAND	4.0	3.7	5.3	2.4	0	19.4	0	19.4	133.8	18.7	123.7	28.8	52.2	32.4	41.9	42.7	190.0	74.2	170.9	+1.3	-8.1	86.5
IRELAND	0.7	2.9	0	3.6	11.0	3.7	0	14.7	61.7	25.8	0	87.5	154.3	24.0	5.7	172.6	227.7	56.4	5.7	0	0	278.4
UNITED KINGDOM	80.9	41.0	75.4	46.5	241.0	73.0	211.0	105.0	277.6	205.2	183.0	299.8	356.5	134.3	277.3	213.5	950.0	453.5	746.7	8.6	+21.6	675.8
TOTAL WEST EUROPE	513.7	258.4	383.6	388.5	1127.2	422.4	779.3	770.3	1940.4	1333.3	1517.6	1756.1	2840.4	1347.2	1644.4	2543.2	6421.7	3361.3	4324.9	-23.8	-0.2	5434.1
U.S.A.	355.6	8.4	41.2	322.8	450.4	10.4	71.0	389.8	3112.0	21.4	420.6	2712.8	4035.5	38.4	732.4	3341.5	7953.5	78.6	1265.2	-	-9.9	6757.0
OTHER AMERICAS																						
ARGENTINA	4.4	2.2	0.2	6.4	3.3	2.0	1.5	3.8	47.1	5.3	2.6	49.8	28.4	15.2	0.7	42.9	83.2	24.7	5.0	0	+0.2	103.1
BRAZIL	57.3	4.5	8.4	53.4	55.8	6.8	2.0	60.6	300.8	15.2	1.8	314.2	209.4	17.4	9.9	216.9	623.3	43.9	22.1	0	+0.2	645.3
CANADA	30.9	17.0	12.8	35.1	66.1	9.3	46.3	20.1	163.1	84.2	26.2	221.1	105.8	80.9	19.8	166.9	365.9	191.4	105.1	+0.5	+11.7	464.4
CHILE	2.2	0.4	0	2.6	6.6	0.7	0	7.3	11.0	2.7	0	13.7	5.5	14.1	0	19.6	25.3	17.9	0	0	+0.2	43.4
COLOMBIA	5.3	0.4	0	5.7	0	5.5	0	5.5	50.7	12.6	0	63.3	24.0	9.5	0	33.5	80.0	28.0	0	0	+0.2	108.2
COSTA RICA	0	0	0	0	0	0.4	0	0.4	6.6	2.0	0	8.6	0	3.3	0	3.3	6.6	5.7	0	0	0	12.3
CUBA	4.8	0.7	0	5.5	8.4	0.9	0	9.3	0	2.0	0	2.0	0	4.4	0	4.4	13.2	8.0	0	+0.2	+5.1	26.5
ECUADOR	0	0.4	0	0.4	0	4.4	0	4.4	7.7	6.0	0	13.7	0	12.4	0	12.4	7.7	23.2	0	0	0	30.9
MEXICO	37.0	0.2	1.6	35.6	24.3	9.3	6.2	27.4	302.0	10.1	3.3	308.8	225.8	19.0	1.1	243.7	589.1	38.6	12.2	0	-1.7	613.8
PERU	3.3	0.2	0.2	3.3	0	3.0	0	4.0	23.1	5.5	0	28.6	49.6	11.0	0	60.6	76.0	20.7	0.2	0	0	96.5
URUGUAY	2.9	0.4	1.3	2.0	0	3.7	0	3.7	2.4	0.4	0	2.8	5.8	2.6	0.4	8.0	11.1	7.1	1.7	0	0	16.5
VENEZUELA	6.2	0.7	0	6.9	0	11.9	0	11.9	25.3	4.4	0	29.7	13.2	6.0	0	19.2	34.7	23.0	0	0	0	67.7
TOTAL OTHER AMERICAS	154.3	27.1	24.5	156.9	164.5	58.9	56.0	167.4	939.8	150.4	33.9	1056.3	667.5	195.8	31.9	831.4	1926.1	432.2	146.3	+0.7	+15.9	2228.6
JAPAN	263.0	3.3	94.1	172.2	612.9	0.7	298.3	315.3	1379.4	55.3	252.4	1182.3	1611.8	48.9	536.8	1123.9	3867.1	108.2	1181.6	-9.9	-87.7	2696.1
AFRICA, ASIA & OCEANIA																						
AUSTRALIA N.Z.	0	5.3	0	5.3	0	3.5	0.4	5.1	28.7	21.2	0	49.9	0	35.5	0.4	35.1	28.7	65.5	0.8	+2.0	+19.4	114.8
BANGLADESH	7.7	0	0.2	7.5	0	9.5	0	9.5	0.7	1.5	0	2.2	0	0.2	0	0.2	8.4	11.2	0.2	0	0	19.4
EGYPT	13.2	1.1	0	14.3	8.8	2.4	1.6	9.6	4.0	12.6	0	16.6	11.0	9.7	0.2	20.5	37.0	25.8	1.8	0	+0.9	61.9
INDIA	127.2	5.1	4.0	126.3	164.7	80.1	0	254.8	87.5	25.2	0.7	115.0	67.9	14.8	0	82.7	447.3	135.2	4.7	0	+0.9	578.7
INDONESIA	0	7.0	0	7.0	0	50.0	0	50.0	91.5	25.8	1.3	116.0	118.8	47.9	0	156.7	210.3	120.7	1.3	+4.2	+8.8	342.7
IRAN	0	9.5	0	9.5	0	80.7	0	80.7	9.9	26.9	0	36.8	0	63.7	0	63.7	9.9	180.8	0	+0.9	+25.8	217.4
IRAQ	6.6	2.0	0	8.6	12.1	2.0	0	14.1	0	16.8	0	16.8	0	10.1	0	10.1	18.7	30.9	0	+1.1	+9.9	60.6
ISRAEL	0	0.7	0	0.7	0	1.5	0	1.5	23.1	20.1	9.0	34.2	14.5	7.5	2.6	19.4	37.6	29.8	11.6	+0.4	+1.3	57.5
KOREA REPUBLIC OF	27.3	14.8	7.5	34.6	33.1	17.4	2.2	48.3	562.5	25.8	39.5	548.9	619.9	29.5	65.0	584.4	1242.9	87.5	114.2	8.4	125.4	1082.4
MALAYSIA	0	1.3	0	1.3	0	27.1	3.1	24.0	0	26.7	0.2	26.5	79.4	33.3	10.4	102.3	79.4	88.4	13.7	+0.2	-7.7	146.6
NIGERIA	0	3.9	0	3.9	0	3.5	0	3.5	5.5	35.7	2.2	39.0	5.5	3.8	4.8	4.5	11.0	46.9	7.0	+7.3	+23.6	81.8
PAKISTAN	6.0	5.3	0	11.3	0	24.9	0	24.9	3.3	26.2	0	29.5	0	24.7	0	24.7	9.3	81.1	0	0	+0.2	90.6
PHILIPPINES	0	0.9	0	0.9	0	33.1	0	33.1	66.2	6.8	4.6	68.4	30.9	32.2	0	63.1	97.1	73.0	4.6	+1.5	+2.4	169.4
SOUTH AFRICA	0	11.0	0	11.0	0	31.8	0.2	31.6	73.8	37.7	1.1	110.4	44.1	66.8	0	110.9	117.9	147.3	1.3	+0.2	-1.5	262.8
TAIWAN	6.6	3.3	2.0	7.9	166.0	19.4	26.0	159.4	583.3	27.6	246.5	364.4	646.5	83.3	101.9	627.9	1402.4	133.6	376.4	-15.6	-101.0	1043.0
THAILAND	0	1.8	0.2	1.6	36.2	5.3	0.2	39.3	80.5	2.6	86.2	46.9	109.1	12.4	9.9	111.6	225.8	20.1	46.5	+1.1	0	200.5
TOTAL A, A & O ABOVE	194.6	71.0	13.9	251.7	420.9	399.2	33.7	786.4	1620.6	342.2	341.3	1621.5	1747.6	465.4	195.2	2017.8	3983.7	1277.8	584.1	-6.2	-141.3	4529.9
HUNGARY	0	35.3	0.4	34.9	19.8	34.6	9.7	44.7	12.8	23.4	0.9	35.3	40.4	35.5	14.1	51.8	63.0	128.8	25.1	0	+7.5	174.2
POLAND	56.0	5.3	4.6	56.7	134.5	26.9	0.4	161.0	208.5	25.1	12.3	221.1	151.0	84.0	13.0	222.0	549.8	141.3	40.3	+0.9	+9.9	671.6

WORLD NON-CELLULOSIC FIBER PRODUCTION & PRODUCING CAPACITY **BY FIBER EXCEPT OLEFIN**

MILLION POUNDS

FIBER & AREA		PRODUCTION																		PRODUCING CAPACITY								
		1975			1976			1977			1978			1979			1980			1981			1982			1983		
		Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL	Y	S	TOTAL
ACRYLIC*MODACRYLIC																												
WEST EUROPE	2	1188	1190	1	1619	1620	*	1493	1493	*	1750	1750	*	1753	1753	*	1607	1607	*	1760	1760	*	2264	2264	*	2267	2267	
EAST EUROPE	0	359	359	0	380	380	0	405	405	0	442	442	0	469	469	0	476	476	0	474	474	0	584	584	0	584	584	
U.S.A.	0	525	525	0	621	621	0	709	709	0	725	725	0	761	761	0	780	780	0	690	690	0	842	842	0	855	855	
OTHER AMERICAS	0	146	146	0	181	181	0	181	181	0	214	214	0	239	239	0	245	245	0	229	229	0	366	366	0	381	381	
JAPAN	4	532	536	6	678	684	6	739	745	6	817	823	9	783	792	6	772	778	4	767	771	13	858	871	13	858	871	
ALL OTHER	0	310	310	0	357	357	0	411	411	0	501	501	0	548	548	0	670	670	0	703	703	0	840	840	0	875	875	
TOTAL	6	3060	3066	7	3836	3843	6	3938	3944	6	4449	4455	9	4553	4562	6	4550	4556	4	4623	4627	13	5754	5767	13	5820	5833	
NYLON*ARAMID																												
WEST EUROPE	1194	193	1387	1395	269	1664	1249	268	1517	1247	330	1577	1259	326	1585	1151	336	1487	1164	291	1455	1515	463	1978	1519	465	1984	
EAST EUROPE	722	61	783	854	62	916	869	67	936	892	69	961	914	68	982	1017	121	1138	999	154	1153	1307	190	1497	1378	190	1568	
U.S.A.	1295	562	1857	1372	703	2075	1512	814	2326	1654	886	2550	1781	939	2720	1631	728	2359	1580	752	2332	1970	988	2958	2052	1054	3086	
OTHER AMERICAS	347	38	385	376	45	419	385	44	429	412	49	461	452	50	502	461	50	511	404	45	449	640	80	720	640	81	727	
JAPAN	581	33	614	628	36	664	643	35	678	640	37	681	653	37	690	661	40	701	621	41	662	699	52	751	699	52	751	
ALL OTHER	453	5	458	536	6	542	584	6	590	682	7	689	753	7	760	802	4	806	847	7	854	1091	21	1112	1274	22	1296	
TOTAL	4592	892	5484	5161	1119	6280	5242	1234	6476	5533	1386	6919	5812	1427	7239	5723	1279	7002	5615	1290	6905	7222	1794	9016	7548	1864	9412	
POLYESTER																												
WEST EUROPE	795	709	1504	866	895	1761	808	903	1711	867	945	1812	897	982	1879	780	873	1653	800	979	1779	1095	1407	2502	1021	1417	2438	
EAST EUROPE	168	449	617	191	490	680	207	641	848	247	669	916	257	680	949	280	706	996	269	677	946	411	1139	1550	447	1140	1587	
U.S.A.	1459	1536	2995	1405	1935	3340	1592	2050	3642	1564	2236	3800	1716	2362	4178	1461	2527	3988	1570	2605	4175	1603	2815	4418	1616	2877	4493	
OTHER AMERICAS	357	194	551	369	222	591	423	265	688	432	286	728	472	362	854	477	372	849	443	364	807	712	518	1230	791	534	1325	
JAPAN	440	542	982	553	625	1178	615	649	1264	701	705	1404	692	702	1394	672	705	1377	683	708	1391	862	752	1614	862	752	1614	
ALL OTHER	398	375	773	461	563	1024	519	812	1341	707	1102	1809	851	1222	2073	952	1445	2387	1120	1592	2712	1629	2026	3655	1756	2142	3898	
TOTAL	3617	3805	7422	3845	4739	8584	4164	5320	9484	4518	5951	10469	4887	6410	11297	4632	6618	11250	4885	6925	11810	6312	8657	14969	6493	8862	15355	
OTHER FIBERS* EXCEPT OLEFIN																												
WEST EUROPE	8	24	32	8	24	32	8	21	29	8	21	29	11	23	34	9	24	33	11	18	29	13	26	39	13	26	39	
EAST EUROPE	18	14	32	20	14	34	20	12	32	20	16	36	11	15	26	15	15	30	15	13	28	27	20	47	26	22	48	
U.S.A.	12	2	14	14	3	17	16	3	19	16	5	19	18	3	21	20	4	20	22	2	24	29	3	32	31	2	33	
OTHER AMERICAS	*	0	*	1	0	1	2	0	2	2	0	2	2	0	2	2	0	2	2	0	2	4	0	4	3	0	3	
JAPAN	33	86	119	34	95	129	37	99	136	34	92	126	38	91	129	40	95	135	30	75	105	62	227	289	62	227	289	
ALL OTHER	10	51	61	11	52	63	13	56	69	11	55	66	11	66	77	13	89	103	15	110	125	43	133	166	33	132	165	
TOTAL	81	157	238	88	168	256	96	171	267	91	187	278	91	198	289	100	223	323	95	218	313	168	409	577	168	409	577	
TOTAL FIBERS ABOVE																												
WEST EUROPE	1999	2114	4113	2270	2807	5077	2065	2685	4750	2122	3046	5168	2167	3084	5251	1940	2840	4780	1975	3048	5023	2623	4160	6783	2553	4175	6728	
EAST EUROPE	908	883	1791	1065	955	2020	1096	1125	2221	1159	1196	2355	1184	1232	2416	1522	1318	2640	1283	1518	2601	1745	1933	3678	1851	1936	3787	
U.S.A.	2766	2625	5391	2791	3262	6054	3120	3576	6696	3234	3860	7094	3515	4165	7680	3112	4035	7147	3172	4049	7221	3602	4648	8250	3679	4788	8467	
OTHER AMERICAS	704	378	1082	746	446	1192	810	490	1300	886	559	1405	926	651	1577	940	667	1607	849	638	1487	1356	964	2320	1440	906	2346	
JAPAN	1958	1193	3151	2221	1434	3655	1301	1522	2823	1387	1647	3034	1392	1613	3005	1379	1612	2991	1338	1591	2929	1636	1889	3525	1636	1889	3525	
ALL OTHER	861	721	1582	1008	958	1966	1116	1265	2381	1400	1665	3065	1615	1843	3458	1768	2198	3966	1982	2412	4394	2753	3020	5773	3065	3171	6234	
WORLD TOTAL	8396	7914	16210	9101	9862	18963	9508	10663	20171	10148	11973	22121	10799	12588	23387	10461	12670	23131	10999	13056	23655	13715	16614	30329	14222	16955	31177	

Y means yarn+monofilaments. S means staple+tow+fiberfill. The regional totals here are the same as those on pages 148-150.

a. Other fibers are alginate, azlon, spandex or elastomer, saran, TFE fluorocarbon, vinyl and vinyon.

ESTIMATED U.S. MILL CONSUMPTION
MILLION POUNDS

ITEM	1982						YEAR TO DATE	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
CELLULOSIC								
YARN	21	18	20	22	19		100	126
STAPLE	30	26	30	27	26		139	187
TOTAL CELLULOSIC	51	44	50	49	45		239	313
NONCELLULOSIC								
YARN	233	246	258	253	233		1233	1552
STAPLE	257	246	267	271	275		1296	1559
TOTAL NONCELLULOSIC	470	492	525	524	518		2529	3111
TOTAL MAN-MADE FIBERS^a	521	536	575	573	563		2768	3424
COTTON	207	199	229	217	211		1063	1169
WOOL	12	12	13	12	12		62	67
TOTAL FIBER	740	747	818	802	786		3893	4660
% OF MILL CONSUMPTION								
MAN-MADE FIBERS	70	72	70	71	72		71	74
COTTON	28	27	28	27	27		27	25
WOOL	2	1	2	2	1		2	1

a. Excludes textile glass fiber and acetate cigarette tow.

ESTIMATED U.S. MILL CONSUMPTION

The table above features U.S. monthly mill consumption. These data appear every month in another of our monthly publications, the *MAN-MADE FIBER REVIEW*. Detailed are mill consumption of rayon+acetate yarn+monofilaments and staple+tow, non-cellulosic yarn+monofilaments and staple+tow (excluding textile glass and acetate cigarette tow), cotton and wool. In addition, a percent-share analysis is presented for total man-made fibers, cotton and wool.

For the purposes of this table, mill consumption of fiber is tabulated utilizing the following equation:

$$\begin{array}{rclcl} \text{Domestic} & & \text{Imports} & & \text{Exports} & & \text{Mill Cons.} \\ \text{Shipments} & + & \text{of} & - & \text{of} & = & \text{of} \\ \text{of Fiber} & & \text{Fiber} & & \text{Fiber} & & \text{Fiber} \end{array}$$

In summary for May, estimated U.S. mill consumption of man-made fiber, cotton and wool fell to 786 million pounds, off 2% from April's level of 802 million pounds.

Estimated U.S. mill consumption of man-made fiber declined 1½% to 563 million pounds, off from the 573 million pounds consumed in April. Non-cellulosic fiber consumption fell 1% to 518 million pounds, as did rayon+acetate fiber by 8% to 45 million pounds.

Cotton consumption dropped 2½% in May from the 217 million pounds consumed in April, to 211 million pounds. Consumption of wool remained unchanged at 12 million pounds for May.

Man-made fiber consumption represented a 72% share of all fiber consumed by U.S. mills in May, as compared with a 71% share in April. While cotton was unchanged for May at 27% and wool, following an April share of 2%, registered a 1% share in May.

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN
THOUSAND POUNDS

ITEM & COUNTRY	1982						5 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
CELLULOSIC YARN, MONOFIL & STRIPS								
MEXICO	155	76	157	75	115		578	635
AUSTRIA	0	20	0	451	225		696	21
BELGIUM	11	0	0	23	0		34	151
GERMANY, FED. REP. OF	502	275	218	250	81		1526	1926
NETHERLANDS	86	77	17	59	53		292	1717
SPAIN	40	81	46	47	47		261	183
JAPAN	20	42	36	1	36		135	97
ALL OTHER COUNTRIES ^a	47	17	28	110	22		224	644
TOTAL CELL. YARN	861	588	502	1016	579		3546	5374
CELLULOSIC STAPLE+TOW								
CANADA	155	167	191	129	170		812	2251
AUSTRIA	695	40	441	401	462		1949	2081
FRANCE	1	52	2	0	0		55	183
GERMANY, FED. REP. OF	42	44	43	0	0		129	85
SWEDEN	464	0	871	189	554		2078	937
UNITED KINGDOM	117	2	108	69	119		415	669
AUSTRALIA	153	0	0	0	0		153	0
JAPAN	1-9	24	134	118	76		501	488
ALL OTHER COUNTRIES ^b	0	80	1	44	29		154	48
TOTAL CELL. STAPLE	1686	409	1791	950	1410		6246	6742
NONCELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	295	156	101	444	456		1452	1146
COSTA RICA	117	27	0	0	27		171	0
FRANCE	128	114	79	106	49		476	803
GERMANY, FED. REP. OF	581	562	295	372	569		2179	1840
ITALY	24	2	175	1	10		212	347
UNITED KINGDOM	67	48	38	43	5		201	216
JAPAN	454	661	463	450	438		2465	2766
ALL OTHER COUNTRIES ^c	18	8	29	26	108		189	455
TOTAL N.C. YARN	1683	1378	1180	1442	1662		7345	7573
NONCELLULOSIC STAPLE+TOW								
CANADA	439	310	864	219	476		2308	2372
MEXICO	177	27	57	79			340	1518
BELGIUM	29	31	1	12	0		73	352
FRANCE	219	194	444	308	301		1466	2080
GERMANY, FED. REP. OF	730	752	975	725	861		4043	8006
IRELAND	0	39	39	77	39		194	56
ITALY	58	23	153	115	63		412	2576
NETHERLANDS	141	89	58	43	19		350	198
ROMANIA	50	106	29	219	5		409	244
UNITED KINGDOM	195	250	259	238	412		1354	1473
JAPAN	588	461	510	401	520		2480	2366
TAIWAN	616	194	436	583	760		2589	3115
ALL OTHER COUNTRIES ^d	16	5	1	17	28		67	201
TOTAL N.C. STAPLE	3258	2481	3826	3036	3484		16085	24557

Other countries supplying 1982 poundages are:

a. Brazil 55, Canada 15, France 66, Italy 8 & Rep. of Korea 80.

b. Finland 80, German Dem. Rep. 44, Mexico 1 & Netherlands 29.

c. Austria 10, Belgium 22, Ireland 1, Israel 1,

Rep. of Korea 10, Mexico 14, Netherlands 25, Norfolk Is. 36, Romania 1, Sweden 10, Switzerland 38 & Taiwan 21.

d. Austria 8, German Dem. Rep. 15, Hong Kong 1, Iceland 5, Israel 1 & Switzerland 37.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1982						5 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1982	1981
CELLULOSIC FIBERS									
YARN SINGLES									
TEXTURED	310.0106 & .0206	5	0	28	35	6		74	257
OTHER	310.0150 & .0230 ^a	856	586	474	981	573		3470	5114
MONOFILAMENTS	309.0510 & .0610	0	2	0	0	0		2	3
STRIPS, \$1 LB & UNDER	309.2000 ^a	0	0	0	0	0		0	
SUBTOTAL ABOVE		861	588	502	1016	579		3546	5374
STAPLE	309.4520 & .4525	1510	409	1623	853	1219		5614	5889
GROUPED FILAMENTS	309.3010 & .3110	176		168	97	191		632	853
SUBTOTAL ABOVE		1686	409	1791	950	1410		6246	6742
WASTE, ADVANCED & NOT ADVANCED	309.6615 & .7510	0	0	64	0	197		261	116
NONCELLULOSIC FIBERS									
YARN SINGLES									
TEXTURED NYLON	310.0109 & .0209	423	174	125	210	516		1448	1722
POLYESTER	310.0110 & .0210	231	43	7	3	33		317	148
OTHER	310.0114 & .0214	32	26	69	361	268		756	147
OTHER NYLON	310.0149 & .0249	111	211	278	99	191		890	1885
POLYESTER	310.0150 & .0250	551	691	368	441	403		2454	1702
OTHER	310.0170 & .0270 ^b	164	81	140	162	147		694	818
MONOFILAMENTS	309.0200 & .0350 ^c	140	139	157	145	89		670	1073
STRIPS, OVER \$1 LB	309.2100 & .2500 ^a	31	13	36	21	15		116	78
SUBTOTAL ABOVE		1683	1378	1180	1442	1662		7345	7573
STAPLE NYLON		392	209	400	316	84		1401	9897
POLYESTER	309.4342	487	517	933	577	494		3008	2057
ACRYLIC	309.4345	526	474	962	607	369		2938	5776
OLFIN	309.4346	1	30	1	33	30		95	315
OTHER	309.4355	899	292	581	653	1011		3436	4043
GROUPED FILAMENTS									
NYLON	309.3030 & .3130	460	530	345	565	884		2784	478
POLYESTER	309.3040 & .3140	0	0	17	1			18	86
ACRYLIC	309.3050 & .3150	297	376	553	246	468		1940	1100
OTHER	309.3065 & .3165	196	53	34	38	144		465	805
SUBTOTAL ABOVE		3258	2481	3826	3036	3484		16085	24557
WASTE, NOT ADVANCED	309.6625	1882	1647	1838	2315	2285		9667	9854
NYLON	309.6630	1398	775	1580	608	581		4942	6906
POLYESTER	309.6645	0	184	9	59	294		546	1362
ACRYLIC	309.6660	433	229	247	256	480		1645	953
OTHER		0	20	0	0	0		20	0
NOHS & GARNETTED FIBERS	309.6000 & .7000 ^a	50	17	26	9	16		118	222
OTHER WASTE, ADVANCED	309.7525 .7555								
SUBTOTAL ABOVE		3763	2872	3700	3247	3656		17238	19297
TOTAL MAN-MADE ABOVE		11251	7728	11063	9691	10988		50721	63659
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN PLYED									
TEXTURED CELLULOSIC	310.1106	0	0	0	0	1		1	24
NONCELLULOSIC	310.1015 ^d & .1109 ^e	407	110	333	266	421		1537	1282
OTHER CELLULOSIC	310.1050 & .1135 ^f	0	6	67	0	16		89	16
NONCELLULOSIC	310.1050 & .1070 ^g	200	18	13	54	29		314	137
SPUN YARN CELLULOSIC	310.4005 & .4030 ^h	28	0	18	20	32		98	148
OTHER	310.4015 & .4027 ⁱ	1570	1253	1374	1784	2288		8269	8914
OTHER YARNS, NES, INCL. CHENILLE	310.6029 .8000	205	89	190	229	367		1080	1746
HANDWORK YARNS & SEWING THREAD	310.9000 .9140	166	203	188	226	192		975	1117
SILVER, TOPS & ROVING	309.9000	434	309	201	115	79		1138	1618
TEXTILE GLASS FIBER	309.2800 & .2900 ^j	1737	1092	1011	736	1033		5609	3838
GRAND TOTAL ABOVE		15998	10808	14458	13121	15446		69831	82499

SOURCE: U.S. Census Bureau.

NES: Not elsewhere specified.

^a These items are not reported by the Census as cellulosic vs. noncellulosic. Any separation between cellulosic and noncellulosic is estimated, based mainly on average declared value.

a. Also includes 310.0510 & .0610.

b. Also includes 310.0530, .0550, .0630 & .0650.

c. Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 310.1110 & .1114.

f. Also includes 310.2010 & .2110.

g. Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

h. Also includes 310.5005 & .5030.

i. Also includes 310.4046, .4047, .4050, .5015, .5046, .5047, .5049 & .5051.

j. Chiefly roving. Also includes 309.9800 & .9900.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982						YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
TOTAL SHIPMENTS^b								
MAN-MADE FIBER DATA^c								
YARN*MONOFILAMENTS^d								
ACETATE	19.1	16.9	17.7	19.4	16.5	17.4	107.0	142.7
NYLON ^e INDUSTRIAL ^f	26.2	29.2	31.5	30.8	26.7	28.3	172.7	208.6
LOW DENIER INDUSTRIAL ^g	2.6	2.3	2.6	2.5	2.2	2.7	14.9	18.2
CARPET	40.3	43.3	46.0	46.1	51.2	48.3	275.2	396.2
TEXTILE	27.9	27.0	29.5	28.4	26.6	26.7	166.1	219.4
POLYESTER INDUSTRIAL ^f	22.6	24.4	27.8	26.3	22.9	27.4	151.4	153.3
LOW DENIER INDUSTRIAL ^g	1.9	1.8	1.9	1.9	1.9	2.1	11.5	14.8
TEXTILE	75.4	87.8	88.5	88.2	79.3	78.3	497.5	640.7
OLEFIN ^h	50.1	50.4	51.0	48.9	48.5	52.0	300.9	333.5
TOTAL NONCELLULOSIC ABOVE ⁱ	247.0	266.2	278.8	273.1	259.3	265.8	1590.2	1984.7
STAPLE*TOW*FIBERFILL^j								
RAYON	30.3	28.9	31.8	29.0	27.7	29.9	177.6	233.9
NYLON ^e	48.0	48.3	49.7	55.9	61.0	58.1	321.0	436.1
ACRYLIC*MODACRYLIC	45.8	47.7	61.0	52.7	57.5	59.2	323.9	372.6
POLYESTER	173.3	176.4	174.0	161.7	156.6	155.3	997.3	1296.3
OLEFIN*VINYLON	8.3	10.2	11.4	10.8	14.9	14.8	70.4	68.1
TOTAL NONCELLULOSIC ABOVE	275.4	282.6	296.1	281.1	290.0	287.4	1712.6	2173.1
END OF MONTH STOCK								
YARN*MONOFILAMENTS								
ACETATE	12.4	11.7	13.5	11.0	11.9	13.2	13.2	12.1
NYLON ^e INDUSTRIAL ^f	41.7	37.6	33.1	30.4	31.7	33.3	33.3	41.2
LOW DENIER INDUSTRIAL ^g	4.5	4.5	4.1	4.6	4.6	4.5	4.5	3.2
CARPET	62.5	58.0	55.5	53.9	49.5	51.4	51.4	39.5
TEXTILE	50.9	52.9	51.1	48.6	45.9	43.3	43.3	41.4
POLYESTER INDUSTRIAL ^f	23.7	25.1	25.2	24.6	27.1	27.8	27.8	24.7
LOW DENIER INDUSTRIAL ^g	4.0	3.4	3.8	3.7	3.6	2.7	2.7	3.6
TEXTILE	93.4	89.9	93.4	91.9	87.1	81.7	81.7	76.0
OLEFIN ^h	64.3	64.0	64.5	63.6	63.3	61.9	61.9	62.3
TOTAL NONCELLULOSIC ABOVE ⁱ	344.8	335.4	330.7	321.3	312.8	306.6	306.6	291.9
STAPLE*TOW*FIBERFILL								
RAYON	32.6	35.6	36.3	35.1	36.2	36.4	36.4	23.7
NYLON ^e	63.9	58.7	59.3	53.4	48.9	53.6	53.6	48.5
ACRYLIC*MODACRYLIC	68.6	65.2	60.2	67.7	63.7	61.9	61.9	63.8
POLYESTER	180.4	191.9	189.2	186.6	185.8	175.2	175.2	185.1
OLEFIN*VINYLON	30.0	31.3	31.6	29.3	24.7	21.9	21.9	15.5
TOTAL NONCELLULOSIC ABOVE	342.9	347.1	340.3	337.0	323.1	312.6	312.6	312.9
WOOL & COTTON CONSUMPTION								
APPAREL CLASS WOOL	11.6	10.6	13.0	10.5	10.1		55.8	62.4
CARPET CLASS WOOL	0.7	0.9	1.0	0.8	1.0		4.4	4.1
TOTAL RAW WOOL	12.3	11.5	14.0	11.3	11.1		60.2	66.5
RAW COTTON	207.2	198.6	228.7	217.3	211.7	197.5	1261.0	1413.2

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per

denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*tow data are available annually only; see page 21 of the February issue.

Textile Organon

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MONTHLY REVIEW

Highlights

Second Quarter Total Shipments of Noncellulosic Staple+Tow Rise, Though Export Shipments Plummet ... see page 165.

U.S. Export Balance of Man-Made Fiber and Manufactures Declines as Imports Rise During Second Quarter ... see page 165.

Total Shipments of Noncellulosic Yarn+Monofilaments and Staple+Tow Fall in July ... see page 180.

Textile Organon Special Report: *The Impact of Exports* ... see page 169.

As the new President of the Textile Economics Bureau I want to reconfirm our company's commitment to accuracy and timeliness with regard to the industry data presented each month in the *Textile Organon*. Further, we remain committed to publishing all data series on schedule and in a format that is clear, concise and meaningful.

With this issue, we are presenting the first in a series of periodic special reports that highlight situations in the man made fibers industry that we believe warrant your attention—in this case, the impact of export shipments on U.S. man made fiber's capacity utilization. The data is presented factually and without opinion.

We believe that special reports of this type will make the *Organon* an even better management tool.

Raymond Schwadse

ITEM	1982		a	1981	b	YEAR TO DATE		c
	JULY	JUNE		JULY		1982	1981	
TOTAL SHIPMENTS								
MILLION POUNDS & Percent								
MAN-MADE FIBER DATA								
YARN+MONOFILAMENTS								
ACETATE	12.2	17.4	20.0	24.6	50.4	119.2	167.3	28.7
NYLON INDUSTRIAL	25.5	28.5	17.0	80.0	23.2	196.2	289.2	18.0
LOW DENSITY INDUSTRIAL	1.9	2.7	20.0	2.5	24.0	10.8	20.7	18.8
CARPET	42.0	48.5	11.8	50.8	25.0	517.8	455.0	29.8
TEXTILE	21.4	20.7	19.8	51.7	52.5	187.5	251.1	25.3
POLYESTER INDUSTRIAL	21.8	27.4	20.4	20.6	17.4	175.2	179.7	3.0
LOW DENSITY INDUSTRIAL	1.5	2.1	28.0	2.5	40.0	15.0	17.5	24.8
TEXTILE	61.2	78.3	21.8	192.1	41.1	558.7	742.8	24.8
CREPE	49.5	50.1	1.2	55.5	7.5	549.5	587.0	0.7
TOTAL NONCELLULOSIC ABOVE	223.4	263.9	15.3	306.1	27.0	1812.5	2290.8	20.0
STAPLE+TOW+FIBERFILL								
RAYON	25.2	29.9	15.7	39.4	36.0	202.8	273.3	25.8
NYLON	51.4	58.1	11.5	62.2	17.4	572.4	498.5	25.3
ACRYLIC+MODACRYLIC	47.6	59.2	10.0	51.9	8.3	571.5	424.5	32.5
POLYESTER	129.5	155.3	16.7	212.8	59.2	1126.0	1509.1	25.3
CELLULOSE+VISCON	11.6	14.8	21.6	10.7	8.4	82.0	78.8	4.1
TOTAL NONCELLULOSIC ABOVE	239.9	287.4	16.5	357.6	28.0	1952.5	2510.7	22.2

a. Percent change from previous month to current month.

b. Percent change to current month from same month last year.

c. Percent change from cumulative total last year to cumulative total this year.

Also see footnotes on last page of this issue.

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Textile Organon

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MONTHLY SHIPMENT SYNOPSIS

Nylon yarn+monofilament shipments to the carpet trades fell for the second straight month and shipments of nylon industrial yarn hit a new monthly low for the year.

Polyester textile yarn+monofilament shipments declined for the fifth month in a row, while shipments of polyester industrial yarn fell to the lowest level since July of 1980.

Both shipments of olefin yarn+monofilaments and olefin+vinylon staple+tow fell in July.

Polyester staple+tow shipments continued the downward trend for 1982 by recording the lowest monthly level since April of 1975.

Shipments of acrylic+modacrylic staple+tow fell in July after a 3-month rise and nylon staple+tow shipments declined for the second consecutive month.

QUARTERLY PRODUCTION, SHIPMENT & INVENTORY SYNOPSIS

Production of noncellulosic yarn+monofilaments was off for the second quarter of 1982, as was production of staple+tow. Both levels of production declined to the lowest point since third quarter of 1976.

Total shipments of both noncellulosic yarn+monofilaments and staple+tow rose for the second quarter. In each case, a rise in total shipments resulted from an increase in domestic shipments which more than offset a decline in exports.

Inventories of noncellulosic yarn+monofilaments fell in the second quarter, the first drop since the second quarter of 1981, and inventories of staple+tow fell to the lowest level since the fourth quarter of 1980.

U.S. IMPORTS, EXPORTS & BALANCE OF MAN-MADE FIBER & MANUFACTURES, COTTON MANUFACTURES & WOOL MANUFACTURES

MILLION POUNDS

PRODUCTS	1ST Q 1981			2ND Q 1981			3RD Q 1981			4TH Q 1981			1ST Q 1982			2ND Q 1982		
	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a	IMPORTS	EXPORTS	BALANCE ^a
CELLULOSIC																		
CARBONCELLULOSE	5.4	8.4	3.0 E	2.0	0.0	5.4 E	2.0	6.8	4.8 E	2.1	9.8	7.7 E	0.9	7.4	6.5 E	2.1	6.8	4.7 E
STAPLE FIBER ^b	4.0	19.0	15.0 E	4.0	10.5	12.5 E	6.5	15.0	10.5 E	6.5	15.0	10.7 E	5.0	14.7	10.8 E	2.7	14.0	12.2 E
WASTE	0.1	0.7	0.6 E	0.1	0.5	0.7 E	0.1	0.6	0.5 E	0.2	0.0	0.7 E	0.1	1.0	0.9 E	0.2	1.5	1.3 E
SUBTOTAL ABOVE	7.5	25.0	17.5 E	6.7	25.1	16.4 E	7.2	19.9	12.7 E	6.6	21.7	15.1 E	5.9	23.1	17.2 E	5.0	20.7	15.7 E
NONCELLULOSIC FIBERS																		
CARBONCELLULOSE	5.4	118.0	112.5 E	5.5	118.0	112.5 E	8.2	110.7	114.5 E	4.0	100.0	105.8 E	6.2	109.4	105.2 E	4.9	114.8	109.9 E
STAPLE FIBER	12.8	187.0	174.2 E	10.4	207.5	191.1 E	19.1	205.1	186.0 E	12.2	191.1	178.9 E	59.0	148.0	149.0 E	10.7	85.0	74.0 E
WASTE	11.0	25.7	15.8 E	11.0	27.0	10.0 E	12.5	25.0	12.5 E	14.6	28.7	14.5 E	10.5	28.8	18.2 E	10.4	25.0	15.5 E
SUBTOTAL ABOVE	28.1	328.4	300.5 E	33.1	353.4	320.5 E	36.8	349.8	313.0 E	31.2	329.7	298.5 E	24.1	286.5	262.4 E	26.0	224.3	198.5 E
TOTAL FIBER ABOVE^c	35.6	553.4	317.8 E	39.8	376.5	336.7 E	44.0	369.7	325.7 E	37.8	351.4	313.6 E	30.0	309.6	279.6 E	31.0	245.0	214.0 E
MAN-MADE FIBER MANUFACTURES^d																		
SILVER TOPS & BOWING	1.2	2.5	1.3 E	0.7	2.8	2.1 E	1.1	5.2	2.1 E	0.7	2.7	2.0 E	1.0	2.8	1.8 E	0.5	1.2	0.9 E
SEE & CARDS	0.8	1.0	7.8 E	8.2	15.4	5.2 E	0.7	9.5	2.0 E	0.0	8.4	1.8 E	6.1	7.0	1.5 E	8.7	8.1	0.0 E
100% COTTON CRAFT FABRIC	0.7	1.5	0.8 E	0.8	1.5	0.5 E	0.0	1.2	0.0 E	0.8	1.5	0.7 E	0.0	1.4	0.8 E	0.0	1.0	0.0 E
100% COTTON CLOTH	8	14.0	14.0 E	8	12.4	12.4 E	0.1	11.8	11.7 E	0.2	9.0	8.7 E	0.1	8.0	8.5 E	8	7.5	7.7 E
90% COTTON CLOTH	21.4	57.4	36.0 E	25.7	61.8	35.8 E	20.0	65.1	19.6 E	22.8	64.2	21.0 E	21.2	51.5	10.1 E	24.0	50.1	11.5 E
KNIT FABRIC	0.0	15.7	5.1 E	0.4	7.8	6.9 E	0.5	4.0	3.4 E	0.0	5.8	5.2 E	0.0	5.0	5.0 E	0.0	3.8	2.0 E
70% COTTON CLOTH	1.0	6.2	4.5 E	2.4	6.0	4.5 E	2.5	10.4	11.1 E	2.1	6.7	6.0 E	2.4	6.4	6.0 E	5.2	7.4	6.2 E
WEAVE KNIT	52.8	55.0	50.5 E	67.2	55.1	74.0 E	60.7	27.8	111.5 E	60.0	24.8	80.0 E	54.2	21.5	81.2 E	65.7	21.0	67.8 E
80% COTTON CLOTH	80.5	80.5	80.5 E	61.0	85.1	74.0 E	78.4	78.4	111.5 E	61.0	24.8	80.0 E	68.5	21.5	81.2 E	74.2	21.0	67.8 E
100% COTTON CLOTH	15.2	22.8	20.5 E	14.1	22.1	20.0 E	16.5	20.4	19.7 E	17.2	18.9	16.8 E	14.3	17.3	15.8 E	15.0	19.8	17.4 E
TOTAL MANUFACTURES	129.1	174.0	44.9 E	161.4	181.7	20.3 E	192.7	146.0	46.7 E	155.9	136.0	19.9 E	149.0	113.0	36.0 E	199.9	122.1	77.8 E
TOTAL MAN-MADE FIBER & MANUFACTURES																		
FIBER & MANUFACTURES	164.7	527.4	362.7 E	201.2	558.2	357.0 E	236.7	515.7	279.0 E	193.7	487.4	293.7 E	179.0	422.6	243.6 E	250.9	367.1	126.2 E
COTTON MANUFACTURES^e	237.3	103.1	154.2 E	231.2	105.6	125.6 E	258.0	79.8	178.2 E	235.4	78.8	156.6 E	211.5	65.4	146.1 E	224.1	73.3	149.8 E
WOOL MANUFACTURES^f	23.5	3.5	20.0 E	29.2	3.4	25.8 E	36.5	2.7	33.8 E	24.4	2.7	21.7 E	21.8	5.1	18.7 E	29.5	3.4	26.1 E

SOURCES: The man made fiber import and export data are from the U.S. Bureau of the Census. The man made cotton and wool manufactures data are from *Cotton and Wool Situation*, a publication of the U.S. Department of Agriculture.

The total man made fiber and manufactures import, export and balance data of this table cover the cellulosic and non cellulosic fibers only; textile glass fiber is excluded.

a. E means a net export balance; I is a net import balance.

b. Acetate tow is excluded.

c. The fibers included are shown as: Total Man Made Fiber Above; on pages 167 and 168 of this issue.

d. Man made fiber equivalent.

e. Raw cotton equivalent. Data are similar to those on page 45 of the March 1982 *Organon*.

f. Raw wool content. The data differ from those on page 45 of the March *Organon* to the extent that noils and waste are included here.

QUARTERLY MAN-MADE FIBER DATA MILLION POUNDS

ITEM	1980					1981					1982				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
YARN-MONOFILAMENTS^a															
ACETATE															
PRODUCTION	80.0	82.1	77.5	98.0	89.8	111.4	75.0	105.8	14.8	217.0	52.0	88.0			
SHIPMENTS-DOMESTIC	72.0	81.0	77.0	100.0	82.0	85.4	100.0	87.0	45.4	220.5	60.0	67.1			
EXPORT	7.0	8.7	7.0	8.5	8.2	10.0	8.8	7.7	7.7	8.8	8.8	11.2			
TOTAL	80.0	80.0	72.4	108.2	80.0	100.0	78.7	105.8	53.1	201.1	68.7	88.8			
ENDING STOCK	13.1	12.0	10.9	18.4		15.8	12.1	12.0	14.5		15.5	15.2			
NYLON-ARAMID															
PRODUCTION	455.1	408.8	451.0	447.8	1063.1	445.1	428.0	408.0	81.8	1580.7	200.0	300.2			
SHIPMENTS-DOMESTIC	410.0	450.0	447.7	424.3	1598.0	480.5	480.1	440.4	207.8	1600.5	281.0	290.7			
EXPORT	45.2	44.0	58.8	40.0	148.0	60.5	48.5	20.0	23.0	128.7	20.8	28.8			
TOTAL	455.2	494.0	506.5	464.3	1080.0	420.8	421.0	570.5	220.8	1555.0	301.8	320.5			
ENDING STOCK	102.5	107.7	121.1	114.0		118.0	125.8	158.0	152.8		145.8	152.5			
OLEFIN^b															
PRODUCTION	106.1	232.8	140.8	104.5	482.2	105.0	118.0	110.5	150.5	483.0	184.5	140.0			
SHIPMENTS-DOMESTIC	150.0	145.0	147.5	115.0	417.7	104.5	158.0	155.0	150.4	467.9	140.8	145.0			
EXPORT	0.2	7.5	3.0	6.8	20.7	0.0	5.7	0.0	4.0	10.8	8.7	8.8			
TOTAL	106.1	149.2	151.7	108.4	452.4	104.2	164.5	150.0	158.0	468.1	151.5	148.8			
ENDING STOCK	72.1	70.7	70.8	80.0		61.0	62.5	60.2	10.7		64.5	65.1			
POLYESTER															
PRODUCTION	88.2	458.7	447.0	880.2	1462.0	478.7	410.0	405.0	870.0	1560.2	891.5	808.1			
SHIPMENTS-DOMESTIC	80.0	410.0	420.0	90.1	180.5	494.1	402.5	404.8	818.0	1400.0	207.2	202.9			
EXPORT	8.2	47.0	29.0	29.1	144.1	80.4	41.0	34.1	57.7	154.0	84.0	45.8			
TOTAL	88.2	457.7	449.0	902.2	1460.5	584.4	424.4	408.9	450.8	1554.0	332.1	328.8			
ENDING STOCK	144.0	151.0	120.8	117.8		112.1	104.8	109.8	125.0		122.4	112.2			
TOTAL NON CELLULOSIC ABOVE															
PRODUCTION	1017.4	880.8	810.0	1001.5	4725.8	977.7	1009.0	971.5	844.2	3702.8	785.7	774.2			
SHIPMENTS-DOMESTIC	912.1	805.8	815.4	951.0	3584.0	808.0	807.2	800.2	766.5	3402.0	725.0	784.2			
EXPORT	75.8	80.5	71.8	74.0	301.8	75.4	75.1	68.0	65.8	282.5	100.8	62.0			
TOTAL	1017.4	886.3	887.2	1025.0	3885.8	974.4	1010.5	928.8	851.0	3745.1	792.0	797.1			
ENDING STOCK	670.4	684.8	612.7	280.8		202.0	201.0	234.4	687.0		580.7	607.8			
DOMESTIC SHIPMENTS	942.1	805.8	815.4	951.0	3514.0	808.0	807.2	800.2	766.5	3402.0	725.0	784.2			
IMPORTS-TEXTILE YARN ^c	0.0	0.0	1.0	1.7	5.1	1.6	2.7	2.1	2.2	8.6	2.0	5.1			
OTHER YARN ^c	5.1	4.7	5.0	2.8	12.1	2.2	8.1	5.5	2.8	11.6	2.8	2.0			
MONOFILAMENTS	1.4	1.8	0.8	0.5	4.0	0.5	0.8	0.0	0.4	2.0	0.4	0.0			
TOTAL IMPORTS	5.1	5.0	5.7	4.5	21.2	4.1	6.6	6.5	5.4	22.6	5.2	6.0			
TOTAL AVAILABLE	947.2	811.4	821.1	955.5	4545.2	904.0	915.8	860.5	771.7	4185.0	780.8	780.8			

TEXTILE GLASS FIBER

PRODUCTION	242.8	224.0	188.5	217.7	860.8	257.1	260.2	280.0	265.2	1042.1	207.0	209.8			
SHIPMENTS-DOMESTIC	240.7	181.2	182.4	253.8	860.1	222.4	273.8	290.0	228.0	965.8	190.5	214.8			
EXPORT	15.2	14.8	10.1	9.5	48.0	9.8	7.5	8.5	9.4	45.2	11.5	10.5			
TOTAL	260.0	195.0	192.5	263.3	908.7	252.2	281.3	297.5	238.0	980.0	202.0	225.1			
ENDING STOCK	120.0	158.0	140.7	104.1		109.0	87.0	121.0	140.2		151.8	150.5			
IMPORTS	2.0	2.0	1.7	1.0	7.5	2.0	2.7	7.6	5.5	18.2	6.8	5.2			
TOTAL AVAILABLE	257.7	198.2	184.1	255.4	876.4	254.0	276.5	294.6	243.1	982.0	194.5	218.0			

FOOTNOTES FOR TABLE ABOVE & OPPOSITE

Imports are imports for consumption, as reported by the U.S. Census Bureau.

a. Data for rayon and other non-cellulosic yarns (chiefly saran & spandex) are available annually only; see pages 20 & 21 of the February issue for further details on these yarns.

b. Olefin Yarn-Monofilament data also include film fiber as well as

spunbonded polypropylene.

c. Yarn imports include singles and plied.

d. Acetate staple-row data are available annually only; see pages 20 & 21 of the February issue for further details.

e. These figures are composites of the nylon, acrylic-modacrylic, polyester and olefin staple imports, i.e., Commodity Numbers 309, 4398, 4342, 4345 & 4340.

QUARTERLY MAN-MADE FIBER DATA (Continued)

MILLION POUNDS

ITEM	1980					1981					1982				
	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
RAYON															
PRODUCTION	120.0	115.4	101.0	102.0	448.4	110.5	114.1	118.9	111.7	455.2	96.2	80.7			
SHIPMENTS DOMESTIC	114.2	92.0	87.5	86.0	389.7	100.2	103.5	100.7	91.5	395.9	77.0	69.9			
EXPORT	14.0	17.8	10.2	15.0	61.0	14.0	15.2	14.2	16.4	59.8	19.4	10.8			
TOTAL	128.2	110.4	105.5	109.0	450.7	114.2	118.7	114.9	107.9	455.7	96.4	80.7			
ENDING STOCK	54.8	57.8	54.8	27.2		20.8	25.7	27.8	51.1		50.8	50.4			
DOMESTIC SHIPMENTS	114.2	92.0	87.5	86.0	389.7	100.2	103.5	100.7	91.5	395.9	77.0	69.9			
IMPORTS FOR CONSUMPTION															
STAPLE	1.4	1.8	2.4	2.0	8.0	8.0	8.5	8.0	8.8	33.3	5.0	2.4			
GROUPED FILAMENTS	0.7	0.7	0.5	0.0	2.5	0.6	0.7	0.0	0.5	2.2	0.5	0.6			
TOTAL IMPORTS	2.1	2.0	2.7	2.0	10.5	8.6	9.2	8.0	9.3	35.5	5.5	3.0			
TOTAL AVAILABLE	130.8	94.4	98.0	100.1	461.0	122.8	127.9	122.9	117.2	491.2	101.9	82.7			
NYLON*ARAMID															
PRODUCTION	214.0	128.5	101.2	228.1	771.8	234.0	253.2	183.8	117.0	788.0	143.3	109.8			
SHIPMENTS DOMESTIC	173.0	155.2	187.0	218.9	734.2	203.8	215.0	155.4	120.3	694.5	143.0	109.8			
EXPORT	8.8	36.1	7.5	31.3	83.7	7.8	38.1	4.5	5.2	55.6	4.1	4.2			
TOTAL	180.7	199.3	194.5	247.8	817.9	212.1	253.0	160.0	125.5	750.1	147.1	114.0			
ENDING STOCK	84.3	73.5	80.2	44.3		87.8	68.9	72.4	64.8		80.4	55.0			
IMPORTS	0.8	0.5	0.8	0.0	2.1	4.0	0.0	0.8	2.8	7.6	1.0	0.7			
TOTAL AVAILABLE	172.2	155.7	187.9	219.1	820.0	209.7	222.5	163.7	128.1	765.3	152.1	114.7			
ACRYLIC*MODACRYLIC															
PRODUCTION	200.4	197.7	182.1	305.0	785.2	190.8	170.8	100.8	150.4	512.8	149.0	171.1			
SHIPMENTS DOMESTIC	161.6	155.7	124.9	145.1	587.3	150.2	157.0	125.5	105.4	538.1	108.0	127.0			
EXPORT	50.6	45.9	47.1	144.2	187.8	55.1	50.8	42.5	52.5	203.4	40.9	44.0			
TOTAL	212.2	199.6	172.0	187.5	775.1	185.3	187.3	168.0	157.9	741.5	148.9	171.0			
ENDING STOCK	54.0	55.0	65.1	68.8		74.8	65.8	64.0	65.1		60.2	61.0			
IMPORTS	5.4	4.5	2.0	5.0	16.9	5.0	2.7	2.0	2.2	11.9	2.0	1.1			
TOTAL AVAILABLE	165.0	160.0	127.5	140.1	598.0	135.3	135.7	125.5	105.6	564.5	110.9	129.2			
OLEFIN*VINYLON															
PRODUCTION	40.7	40.5	20.5	28.2	119.9	41.8	35.1	37.1	38.5	152.5	55.8	40.8			
SHIPMENTS DOMESTIC	28.9	26.8	27.0	32.8	115.5	31.0	35.5	32.2	32.4	131.2	29.3	30.0			
EXPORT	1.9	9.5	1.0	9.8	12.2	0.6	0.5	0.4	0.4	1.5	0.0	0.0			
TOTAL	30.8	26.8	28.0	42.6	127.7	31.6	35.8	32.6	32.8	132.7	29.3	30.0			
ENDING STOCK	20.0	24.1	22.0	17.2		16.2	15.5	20.0	25.7		31.0	21.9			
POLYESTER															
PRODUCTION	654.5	585.2	589.0	699.0	2527.7	660.0	668.0	665.0	628.0	2621.0	555.7	490.0			
SHIPMENTS DOMESTIC	563.1	485.8	460.8	557.3	2067.0	493.2	525.0	507.5	478.8	2003.5	457.5	465.5			
EXPORT	84.8	111.1	150.2	150.5	496.6	129.0	148.2	164.0	154.0	595.2	80.4	28.5			
TOTAL	647.9	596.9	611.0	707.8	2563.6	622.2	673.1	671.5	632.8	2598.7	537.9	494.0			
ENDING STOCK	185.6	175.9	160.5	160.5		190.3	185.1	170.0	174.2		180.2	175.2			
IMPORTS	0.4	0.4	0.5	0.5	1.8	0.5	1.0	1.8	2.4	5.7	1.0	1.7			
TOTAL AVAILABLE	563.5	484.1	461.1	557.0	2068.8	622.2	673.1	671.5	632.8	2598.7	537.9	494.0			
TOTAL NON-CELLULOSIC															
PRODUCTION	1105.4	999.5	959.4	1145.9	4110.2	1083.0	1110.0	1051.5	940.8	4185.3	800.0	850.8			
SHIPMENTS DOMESTIC	925.5	799.0	800.5	951.7	3476.7	800.1	914.5	818.0	754.0	3287.6	710.0	785.0			
EXPORT	145.0	161.6	152.0	190.6	689.2	191.8	206.0	209.0	212.7	820.4	157.5	74.0			
TOTAL	1071.1	960.6	950.5	1142.3	4165.9	1051.9	1121.2	1027.0	967.0	4108.0	867.5	859.0			
ENDING STOCK	345.4	324.5	285.4	287.0		318.1	312.0	346.0	520.8		340.5	312.0			
DOMESTIC SHIPMENTS	925.5	799.0	800.5	951.7	3476.7	800.1	914.5	818.0	754.0	3287.6	710.0	785.0			
IMPORTS FOR CONSUMPTION															
STAPLES	4.1	5.2	4.5	4.9	19.5	9.0	11.2	14.1	7.4	40.7	4.5	5.0			
OTHER N.C. STAPLE	3.9	3.4	3.1	4.2	14.6	2.6	3.5	4.0	1.0	10.7	1.8	5.8			
GROUPED FILAMENTS	1.0	1.5	0.0	1.0	3.5	1.5	2.0	2.1	2.0	8.0	2.0	3.1			
TOTAL IMPORTS	9.0	9.9	7.0	9.1	35.6	12.7	16.5	19.2	11.0	59.4	9.0	10.5			
TOTAL AVAILABLE	945.1	808.9	815.5	960.8	4181.1	872.8	930.8	847.8	775.0	4167.4	726.2	790.4			

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN THOUSAND POUNDS

ITEM & COUNTRY	1982						6 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	1982	1981
CELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	0	15	0	0	0	141	150	469
MEXICO	155	70	157	75	115	92	670	801
AUSTRIA	0	20	0	451	225	85	781	0
GERMANY (FED. REP. OF)	502	275	218	250	81	137	1483	2105
NETHERLANDS	80	—	17	50	55	90	322	1011
SPAIN	0	81	40	47	47	0	201	185
TAIWAN	20	62	50	1	50	2	157	155
ALL OTHER COUNTRIES ^a	380	2	28	155	22	27	270	331
TOTAL CELL. YARN	861	588	502	1016	579	534	4080	5974
CELLULOSIC STAPLE+TOW								
CANADA	155	107	191	129	170	180	902	2005
AUSTRIA	105	40	44	401	402	0	1060	2553
FRANCE	1	12	2	0	0	0	61	228
GERMANY (FED. REP. OF)	62	66	65	0	0	105	190	89
SWEDEN	600	0	871	189	554	0	2078	1100
UNITED KINGDOM	117	2	108	100	119	0	415	990
AUSTRIA	155	0	0	0	0	0	155	0
TAIWAN	100	20	150	118	70	127	628	1870
ALL OTHER COUNTRIES ^b	0	805	1	61	20	38	102	60
TOTAL CELL. STAPLE	1686	409	1791	950	1410	326	6572	7995
NONCELLULOSIC YARN, MONOFIL & STRIPS								
CANADA	295	150	101	44	450	595	2047	1420
COSTA RICA	117	27	0	0	27	0	171	0
FRANCE	128	114	79	100	49	17	493	912
GERMANY (FED. REP. OF)	881	862	295	472	500	454	2645	2195
ITALY	20	2	175	1	10	18	250	626
UNITED KINGDOM	67	68	58	45	5	50	255	217
TAIWAN	455	1001	605	450	458	555	3000	3500
ALL OTHER COUNTRIES ^c	18	8	29	20	108	129	308	500
TOTAL N.C. YARN	1683	1578	1180	1442	1662	1802	9147	9187
NONCELLULOSIC STAPLE+TOW								
CANADA	489	510	804	219	470	565	2075	2707
MEXICO	177	27	87	79	75	—	415	1735
BELGIUM	20	51	1	12	0	0	78	554
FRANCE	219	194	44	508	501	247	1715	2554
GERMANY (FED. REP. OF)	740	752	975	725	801	511	4580	6551
IRELAND	0	89	40	77	59	110	310	50
ITALY	58	25	155	115	65	70	488	2740
NETHERLANDS	141	89	58	45	19	0	350	215
ROMANIA	50	100	29	219	5	29	438	244
UNITED KINGDOM	195	250	250	258	412	181	1545	2291
TAIWAN	588	401	510	401	520	612	3092	2844
TAIWAN	610	194	450	585	700	2041	4550	6981
ALL OTHER COUNTRIES ^d	10	5	1	17	28	91	158	255
TOT. N.C. STAPLE	3258	2481	3826	3036	3484	4174	20259	29195

Other countries supplying 1982 poundages are:

a. Belgium 54, Brazil 82, France 66, Italy 8 & Rep. of Korea 80.

b. Finland 80, German Dem. Rep. 44, Mexico 59 & Netherlands 29.

c. Austria 10, Belgium 68, India 11, Ireland 1,

Israel 1, Rep. of Korea 14, Mexico 55, Netherlands 28, Norfolk Is. 36, Portugal 18, Romania 1, Sweden 11, Switzerland 15 & Taiwan 21.

d. Austria 8, German Dem. Rep. 15, Hong Kong 1, Iceland 5, Israel 60, Poland 15 & Switzerland 54.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1982						6 MONTHS	
		JAN	FEB	MAR	APR	MAY	JUN	1982	1981
CELLULOSIC FIBERS									
YARN, SINGLES									
TEXTURED	5101100 & 5200	75	0	28	85	0	27	110	297
OTHER	5101100 & 5100 ^d	850	586	674	681	778	808	5075	3714
MONOFILAMENTS	8001010 & 8010	0	2	0	0	0	0	2	5
THREADS, FIVE & UNDER	8002000 *	0	0	0	0	0	0	0	0
SUBTOTAL ABOVE		861	588	502	1016	579	535	4080	5974
STAPLE	8001520 & 8200	1510	679	1625	885	1210	240	5844	1870
GROVE CELLULAMENTS	8003010 & 8110	170	0	168	0	301	80	718	1110
SUBTOTAL ABOVE		1686	409	1791	950	1410	426	6572	7995
WASTE, ADVANCE (IN SOLUTION)	8000030 & 7710	0	0	0	0	107	0	207	146
NONCELLULOSIC FIBERS									
YARN, SINGLES									
TEXTURED NYLON	5101100 & 5200	425	174	125	210	710	511	1780	2001
POLYESTER	5101100 & 5210	251	45	0	5	85	11	518	228
OTHER	5101100 & 5214	52	20	10	80	208	560	1080	170
OTHER NYLON	5101100 & 5210	111	214	278	0	101	80	1100	2240
POLYESTER	5101100 & 5210	551	601	808	111	605	240	2730	2100
OTHER	5101100 & 5210 ^b	164	81	140	162	147	80	1003	874
MONOFILAMENTS	8001010 & 8110 ^c	140	150	157	145	80	105	801	1204
THREADS, OVER 4 (10)	8002100 & 2900 *	51	15	50	21	15	21	137	04
SUBTOTAL ABOVE		1685	1578	1180	1442	1662	1802	9147	9187
STAPLE NYLON		802	260	600	510	80	270	1077	1167
POLYESTER	8001540	487	517	655	577	404	50	2585	2420
OTHER	8001540	520	474	902	107	80	82	2502	1541
OTHER	8001550	1	30	1	55	30	27	122	580
GROVE CELLULAMENTS		800	292	581	655	1011	2148	5581	5824
NYLON	8003010 & 8110	690	550	545	505	580	240	3090	674
POLYESTER	8003010 & 8110	0	0	17	1	0	0	18	170
OTHER	8003010 & 8110	207	570	555	240	408	558	2478	1402
SUBTOTAL ABOVE		106	55	54	58	144	51	486	990
WASTE, NOT ADVANCE (10)		1882	1047	1838	2515	2285	2581	12548	11403
POLYESTER	8001600	1308	775	1580	608	581	502	5444	5227
OTHER	8001600	0	184	9	50	204	105	741	1051
OTHER	8001600	455	220	247	250	480	474	1803	1280
SCABS & GARNETT FIBERS	8001000 & 7000 *	0	20	0	0	0	0	20	0
OTHER WASTE, ADVANCE (10)	8007020 & 7000	50	17	20	9	10	1	119	228
SUBTOTAL ABOVE		3765	2872	5700	3247	4656	5455	20691	22841
TOTAL MAN-MADE ABOVE		11251	7728	11065	9691	10988	10289	61010	75338
OTHER MAN-MADE FIBER TOPS, YARN & THREAD									
YARN, OTHER									
TEXTURED CELLULOSE	5101100	0	0	0	0	1	0	1	24
NONCELLULOSE	5101015 ^d & 4100 ^e	107	110	555	206	421	552	1880	1627
OTHER CELLULOSE	5101010 & 1155 ^f	0	0	0	0	10	28	117	10
NONCELLULOSE	5101010 & 1070 ^g	200	18	15	54	29	121	455	141
SPIN YARN CELLULOSE	5101015 & 408 ^h	28	0	18	20	82	7	105	172
OTHER	5101015 & 402 ⁱ	1570	1255	1574	1784	2288	1960	10260	10220
OTHER YARNS, NES, INCL. CHENILLE	5101020 & 8000	205	80	190	220	367	305	1475	2170
HANDWORK YARNS & SEWING THREAD	5101000 & 0140	160	205	188	226	192	254	1209	1680
SILVER TOPS & ROWING	8001000	454	300	201	115	70	145	1271	1865
TEXTILE GLASS FIBER	8002000 & 2000 ^j	1747	1692	1611	740	1055	1558	6907	5525
GRAND TOTAL ABOVE		15998	10808	14458	13121	15446	14855	84686	98318

SOURCE: U.S. Census Bureau

NES, Not elsewhere specified.

* These items are not reported by the Census as cellulosic vs. noncellulosic. Any separation between cellulosic and noncellulosic is estimated, based mainly on average declared value.

a. Also includes 510.0510 & 0610.

b. Also includes 510.0530, 0550, 0630 & 0650.

c. Also includes 300.0540, 0565, 0500, 0630, 0640 & 0665.

d. There may be some acetate yarn in these data, but the Census figures do not permit a segregation.

e. Also includes 510.1110 & 4114.

f. Also includes 510.2010 & 2110.

g. Also includes 510.1150, 1155, 1170, 2030, 2050, 2130 & 2150.

h. Also includes 510.5005 & 5030.

i. Also includes 510.4040, 4047, 4050, 5015, 5040, 5047, 5049 & 5051.

j. Chiefly rowing. Also includes 300.9800 & 9900.

U.S. EXPORTS OF MAN-MADE FIBERS THOUSAND POUNDS

ITEM	COMMODITY NUMBER AS OF 1/1/78	1981					1982				
		1ST Q	2ND Q	3RD Q	4TH Q	YEAR	1ST Q	2ND Q	3RD Q	4TH Q	YEAR
CELLULOSIC											
FILAMENT YARN^a											
TEXTURED	5101400	94	75	72	117	357	142	72			
OTHER ^b	5101400	8191	5820	4280	5008	24094	7194	4350			
MONOFILAMENTS	5001110	4	50	9	4	66	2	9			
STRIPS	5002210	160	79	94	100	540	160	9			
SUBTOTAL ABOVE		8497	6014	4962	5855	24707	7494	4556			
STAPLE-TOW RAYON	5004222	12222	14234	14500	14551	55506	13772	14001			
STAPLE-ACETATE	5004210	3692	2040	1908	658	7004	919	931			
SUBTOTAL ABOVE		15914	16280	14977	14989	62160	14691	14932			
WASTE, ADVANCED & NOT ADVANCED	5007400	104	705	410	805	2700	1007	1202			
NONCELLULOSIC FIBERS											
FILAMENT YARN^a											
NYLON TEXTURED	5101000 & 5000	21787	17478	17050	12070	69000	10770	3643			
HIGH TENACITY ^c	5101002	18158	17544	11005	10024	56730	14520	12582			
OTHER	5101000	5601	4525	6280	3358	16763	4785	3540			
POLYESTER TEXTURED	5101001	68758	55681	65307	65406	254752	65471	71864			
HIGH TENACITY ^c	5101002	4870	5004	6200	6007	24081	5134	4747			
OTHER ^d	5101001	2380	3033	3117	3191	11701	2802	4866			
OTHER TEXTURED	5101003	4174	5082	2340	2149	11751	3255	2847			
OTHER	5101000	741	509	868	505	2635	224	447			
MONOFILAMENTS ALL DENIERS	5101004	1500	1452	1185	1050	5243	1371	1527			
NYLON	5001120	2487	1935	1879	1585	7890	1142	1119			
POLYESTER ^e	5001140	2810	1717	1362	1218	7105	1919	700			
OTHER	5001150	1289	1314	1014	2443	6060	2085	2025			
STRIPS	5002210 & 2270	1400	1540	740	920	4555	760	654			
SUBTOTAL ABOVE		115733	118054	119715	109922	463423	109366	114781			
STAPLE NYLON	5004240	9143	7080	5848	5235	27350	4018	4694			
POLYESTER	5004242	108093	138242	144558	130088	520981	90350	80164			
ACRYLIC	5004245	41711	40137	39084	35720	156661	32810	31987			
OTHER	5004240	904	451	270	593	1718	522	948			
OTHER	5004247	5015	5800	3637	3581	18033	4395	4456			
GROPPED FILAMENTS											
NYLON	5005250	1724	763	740	1328	4561	1531	1313			
POLYESTER ^d	5005240	9508	6700	3902	6761	26871	9528	6684			
ACRYLIC	5005203 & 5255	10070	8560	7144	7075	32855	5472	6303			
SUBTOTAL ABOVE		187034	207469	205089	191090	790682	148640	85589			
WASTE, ADVANCED & NOT ADVANCED											
NYLON	5007420	3470	4141	3302	3025	14038	3542	2750			
POLYESTER	5007400	11000	13080	12419	17000	54417	17204	14920			
ACRYLIC	5007340	1874	1531	573	817	4795	574	651			
OTHER	5007300	8718	9165	8717	7817	34415	7140	5504			
TOTAL MAN-MADE FIBER ABOVE		353439	376532	369670	351396	1451037	309564	244994			
TEXTILE GLASS FIBER	5002700 & 9700	10180	8011	8553	11590	38334	11318	11981			
GRAND TOTAL ABOVE		363619	384543	378223	362986	1489971	320882	256975			

SOURCE: U.S. Census Bureau Report.

a. Includes thrown, singles and plied yarn.

b. Includes an undetermined amount of rayon tire cord and cord fabric.

c. Includes an undetermined amount of non-cellulosic tire cord and

cord fabric.

d. Includes zero twist yarns.

e. These data are obviously incorrect because of misclassification. Most of these poundages should be added with filament yarn.

The Impact Of Exports

Editor's Note As the first in a series of special reports planned to appear periodically in the *Textile Organon*, this report takes an objective look at the effects of exports on U.S. man-made fiber capacity utilization rates. Structurally, it is a compilation of historical capacity, shipment and export data in the form of tabular and graphic displays designed to place exports into perspective. We feel this presentation can be an important tool to help the reader better understand the dynamics of the industry.

Four tables comprise the the database for this report: Percent Change in Capacity 1979-1982, Analysis of Total & Domestic Shipments and Exports 1979-1982, Actual Capacity Summary and Total & Domestic Shipments as a Percentage of Capacity. It is encouraged that the database be used as a four page pull out from the *Organon*.

Percent Change in Capacity 1979-1982, supplies the capacity data used in the calculation of utilization,

along with percent changes from year to year.

For the purpose of the report, November Textile Economics Bureau capacity survey data are used as the annual capacity figures. The Actual Capacity Summary on page 172 of this issue, offers the May capacity survey results, which the reader may find useful in analyzing utilization rates.

The table on pages 170-171, Analysis of Total & Domestic Shipments and Exports 1979-1982, lists the total domestic and export shipment data from first quarter 1979 to second quarter 1982. In addition, the percent change in shipments from quarter to quarter are supplied, as well as the quarter by quarter percent shared by domestic and export shipments.

Total & Domestic Shipments as a Percentage of Capacity 1979-1982, page 172, presents the total and domestic shipment data as a percentage of capacity from quarter to quarter. These utilization rates are plotted on the accompanying graphs found on pages 173-179.

PERCENT CHANGE IN CAPACITY 1979-1982

FIBER & TYPE	NOV 1979	% ^a	NOV 1980	% ^b	NOV 1981	% ^b	MAY 1982	% ^b
YARN+MONOFILAMENTS								
ACETATE	555	+7.0	524	-5.7	552	+2.5	518	-6.2
NYLON+ARAMID								
INDUSTRIAL	513	+0.0	513	0.0	514	+0.2	518	+0.8
CABLE	1050	+4.0	1101	+4.2	898	-1.0	920	+2.0
TEXTILE	879	+2.3	851	-3.8	784	-9.6	842	+7.8
WOLLESTER								
INDUSTRIAL	445	-	400	-10.7	510	+27.0	557	+9.0
TEXTILE	1009	+1.6	1057	+4.0	1081	+0.5	1205	+10.0
CELLULOSE	912	+0.8	900	-1.2	989	+9.0	991	+0.2
STAPLE+TOW								
RAYON	471	+0.0	514	+9.4	509	-1.0	510	+0.2
NYLON	1020	+0.0	991	-2.8	1010	+1.0	987	-2.3
WOLLE+MODACRYLIC	830	-3.0	830	0.0	835	+0.0	860	+3.0
WOLLESTER	2078	+4.7	2730	+32.2	2849	+4.0	2817	-0.8
CELLULOSE+RAYON	100	+13.2	154	+8.2	200	+38.8	275	+37.5

See footnotes page 170, Actual Capacity Summary, for complete item descriptions.

+ means no change.

a: Percent change from November 1978 survey.

b: Percent change from previous November survey.

ANALYSIS OF TOTAL & DOMESTIC

MILLIONS OF

YEAR & QUARTER (Q)	YARN+MONOFILAMENTS																
	ACETATE			NYLON+ARAMID									POLYESTER				
				INDUSTRIAL			TEXTILE			CARPET							
	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	% ^a	% ^b	LBS	
TOTAL SHIPMENTS																	
1979	1Q	81.2	+10.0	100.0	152.9	+11.2	100.0	154.4	+1.2	100.0	173.1	+5.4	100.0	101.4	+11.4	100.0	350.5
	2Q	79.5	-2.1	100.0	120.5	-9.5	100.0	154.5	0.1	100.0	204.5	+18.0	100.0	98.0	-4.3	100.0	330.5
	3Q	78.7	-1.0	100.0	115.0	-5.0	100.0	120.5	5.8	100.0	197.1	-3.5	100.0	80.0	-17.5	100.0	313.5
	4Q	80.8	+2.7	100.0	120.2	+5.8	100.0	120.0	-0.1	100.0	194.4	-1.4	100.0	85.8	+5.8	100.0	329.5
1980	1Q	80.7	0.1	100.0	120.5	+5.1	100.0	151.7	+9.0	100.0	193.2	0.6	100.0	82.4	-3.4	100.0	321.2
	2Q	80.0	-0.7	100.0	100.2	-20.7	100.0	119.3	-9.4	100.0	165.4	-14.4	100.0	65.9	-22.4	100.0	287.8
	3Q	72.4	-10.2	100.0	99.9	-0.3	100.0	104.6	-12.5	100.0	182.0	+10.0	100.0	60.2	+3.0	100.0	282.8
	4Q	68.2	-5.8	100.0	120.2	+20.3	100.0	127.8	+22.2	100.0	210.5	+18.8	100.0	81.8	+24.0	100.0	310.4
1981	1Q	69.0	-6.1	100.0	100.1	-11.7	100.0	118.5	-7.3	100.0	190.2	-0.4	100.0	75.0	-7.6	100.0	266.8
	2Q	78.7	+23.0	100.0	102.5	3.4	100.0	119.1	+0.5	100.0	200.0	+1.0	100.0	77.7	+2.8	100.0	300.5
	3Q	65.5	-17.0	100.0	101.5	-1.2	100.0	111.4	-6.5	100.0	157.8	-21.1	100.0	78.0	+1.5	100.0	320.0
	4Q	53.1	-18.7	100.0	94.0	-8.2	100.0	104.5	-6.4	100.0	123.0	-22.0	100.0	74.0	-5.1	100.0	280.4
1982	1Q	53.7	+1.1	100.0	80.0	-6.0	100.0	91.9	-11.0	100.0	129.0	-5.4	100.0	74.8	-0.1	100.0	257.4
	2Q	51.3	-0.7	100.0	85.4	-1.7	100.0	89.1	-3.0	100.0	145.0	+12.5	100.0	70.0	+2.4	100.0	254.5
DOMESTIC SHIPMENTS																	
1979	1Q	71.8	+8.5	88.4	112.4	+11.3	80.0	128.8	+1.8	95.8	164.1	+1.9	94.8	95.4	+10.4	94.1	401.7
	2Q	72.2	+0.6	90.8	101.0	-10.1	84.0	126.2	-2.0	94.0	190.8	+19.0	90.4	89.7	-0.3	91.5	315.3
	3Q	72.0	-0.3	91.5	92.5	-8.0	81.2	119.9	-5.0	94.8	187.9	-4.5	95.3	70.4	-20.5	87.3	281.5
	4Q	72.4	+0.5	89.0	96.0	+5.0	80.0	121.3	+1.2	95.8	183.7	-2.2	94.5	75.4	+7.1	88.4	288.5
1980	1Q	72.0	+0.7	90.3	100.4	+0.8	80.2	126.1	+9.0	95.7	183.5	0.1	95.0	71.8	-4.8	87.1	297.4
	2Q	71.0	-1.4	89.2	70.5	-25.3	70.3	113.9	-9.7	95.5	157.5	-14.2	95.2	52.0	-27.0	81.4	258.7
	3Q	64.7	-10.0	89.4	78.7	-1.0	78.8	99.7	-12.5	95.3	169.3	+7.5	94.0	50.7	-14.8	90.2	260.7
	4Q	50.7	-7.7	87.5	98.4	+25.2	81.9	121.6	+22.0	95.1	204.2	+20.0	94.4	74.1	+22.4	80.4	250.0
1981	1Q	53.4	-10.5	83.4	85.1	-13.0	80.2	111.4	-8.4	94.0	180.0	-9.9	93.8	68.2	-6.7	80.2	288.7
	2Q	60.0	+50.9	88.8	80.1	+1.2	84.0	113.1	+1.5	94.7	186.0	+1.0	93.4	71.5	+4.8	92.0	324.0
	3Q	57.0	-17.0	88.2	87.5	-1.0	80.3	100.5	-5.8	95.0	140.0	-21.0	92.9	73.5	+2.8	93.1	291.4
	4Q	45.4	-21.2	85.5	70.5	-10.1	85.5	101.7	-4.5	97.5	110.1	-20.8	94.4	68.7	-6.5	91.7	249.0
1982	1Q	44.9	-1.1	85.0	71.1	-10.0	80.8	80.2	-12.3	97.1	125.0	+6.5	95.4	68.2	-0.7	91.2	229.4
	2Q	47.1	+4.9	88.4	68.4	-3.8	80.1	86.9	-2.0	97.5	141.4	+14.4	97.1	70.1	+2.8	91.5	222.4
EXPORTS																	
1979	1Q	9.4	+30.5	11.0	20.5	+10.8	15.4	5.0	-11.1	-4.2	9.0	+60.7	5.2	6.0	+33.3	5.9	25.0
	2Q	7.5	-22.3	9.2	10.3	-5.8	16.0	8.1	+44.0	0.0	7.5	-10.7	4.7	8.3	+48.1	8.3	27.4
	3Q	6.7	-8.2	8.5	21.5	+10.4	18.8	6.0	-18.5	5.2	0.2	+22.7	4.7	10.2	+22.9	12.7	50.2
	4Q	8.4	+23.3	10.9	23.5	+9.4	19.4	5.3	-19.7	-4.2	10.7	+16.3	5.5	9.9	-2.0	11.0	30.5
1980	1Q	7.8	-7.1	9.7	19.9	-14.0	15.8	5.0	-5.7	-4.3	9.7	-9.3	5.0	10.6	+7.1	12.9	24.8
	2Q	8.7	+11.5	10.8	20.7	+4.0	20.7	5.4	-3.6	-4.5	7.9	-18.5	4.8	11.9	+12.3	18.9	29.4
	3Q	7.7	-11.5	10.0	21.2	+2.4	21.2	4.9	-9.3	-4.7	12.7	+60.8	7.0	6.5	-45.4	9.8	22.3
	4Q	8.5	+10.4	12.5	21.7	+2.4	18.1	6.2	+26.5	4.9	12.1	-4.7	5.0	8.7	+33.8	10.6	20.4
1981	1Q	10.6	+24.7	16.0	21.0	-3.2	19.8	7.1	+14.5	6.0	12.2	+0.8	6.2	7.4	-14.9	9.8	22.9
	2Q	8.8	-17.0	11.2	16.4	-21.9	16.0	6.0	-15.5	5.3	13.1	+7.4	6.0	6.2	-16.2	8.0	25.7
	3Q	7.7	-12.5	11.8	13.8	-15.8	13.6	4.0	-18.3	4.4	11.2	-14.5	7.1	5.4	-12.9	6.0	28.7
	4Q	7.7	-	14.5	15.5	-2.2	14.5	2.0	-60.0	-2.5	6.9	-38.4	5.6	6.2	-14.8	8.5	31.5
1982	1Q	8.8	+14.3	16.4	15.8	+17.0	18.2	2.7	+3.8	2.0	6.0	-13.0	4.0	6.6	+6.4	8.8	28.4
	2Q	6.2	-29.5	11.0	17.4	+10.1	19.9	2.2	-18.5	-2.5	-4.2	-30.0	-2.9	6.5	-1.5	8.5	20.9

See footnotes page 170. Actual Capacity Summary, for complete item descriptions.

NA means not available.

- means no change.

a. Percent change from quarter to quarter. First quarter 1979 percentages are the percent changes from fourth quarter 1978.

b. Percent of total shipments.

SHIPMENTS AND EXPORTS 1979-1982

UNITS: \$ (thous)

		STAPLE + TOW																	
Y	M	OLEFIN			RAYON			NYLON + ARAMID			ACRYLIC + MODACRYLIC			POLYESTER			OLEFIN + VINYLON		
		LBS	Y	M	LBS	Y	M	LBS	Y	M	LBS	Y	M	LBS	Y	M	LBS	Y	M
2-1	1000	156.2	+2.7	1000	145.0	1.1	1000	257.3	+1.0	1000	186.9	+5.0	1000	622.7	+1.0	1000	91.2	+3.1	1000
1-2	1000	164.0	+5.0	1000	152.8	7.7	1000	243.3	+2.5	1000	202.6	+8.4	1000	605.2	3.1	1000	81.7	+3.1	1000
7-2	1000	159.4	-3.3	1000	155.7	+0.7	1000	236.2	-2.0	1000	186.6	-7.0	1000	609.0	3.1	1000	29.4	-7.2	1000
1-1	1000	164.8	-3.4	1000	152.1	-1.2	1000	227.7	3.0	1000	194.1	+4.0	1000	658.5	+5.5	1000	51.5	+7.1	1000
0-7	1000	165.1	1.0	1000	129.2	-2.0	1000	180.7	2.0	1000	212.2	+0.1	1000	617.0	+1.5	1000	93.5	1.8	1000
0-4	1000	149.2	-8.5	1000	110.4	13.0	1000	193.5	22.9	1000	199.0	-8.0	1000	804.0	8.2	1000	29.8	11.5	1000
1-7	1000	151.7	+1.7	1000	105.5	6.2	1000	195.5	+0.2	1000	172.0	13.8	1000	605.0	+1.4	1000	28.0	+4.6	1000
0-8	1000	168.4	+11.0	1000	109.0	+5.0	1000	227.8	+1.0	1000	187.5	+8.0	1000	609.0	+15.0	1000	85.0	+20.0	1000
0-5	1000	169.2	+0.5	1000	114.2	+4.2	1000	212.1	-6.0	1000	185.5	-1.1	1000	622.2	+10.1	1000	52.5	1.3	1000
2-1	1000	160.5	-2.0	1000	119.7	+4.8	1000	224.0	+5.0	1000	187.5	+1.1	1000	674.1	+8.1	1000	45.8	+10.8	1000
7-7	1000	159.0	-2.0	1000	114.0	4.0	1000	190.9	28.6	1000	160.0	11.4	1000	609.1	16.7	1000	52.0	8.1	1000
2-1	1000	155.0	-2.0	1000	107.0	6.1	1000	125.5	-21.5	1000	155.0	-0.1	1000	655.4	5.1	1000	42.4	+1.0	1000
8-0	1000	151.5	-2.3	1000	91.0	15.7	1000	140.0	+10.1	1000	154.5	0.0	1000	525.7	17.1	1000	20.0	+8.8	1000
2-2	1000	150.4	-1.4	1000	80.0	-4.8	1000	175.0	+1.0	1000	169.4	+0.6	1000	475.0	9.0	1000	40.0	+15.4	1000
0-0	92.4	150.0	+1.8	90.4	117.0	+7.8	81.7	240.1	+1.3	97.0	154.7	+7.8	72.1	547.0	+8.2	80.1	90.1	+1.8	90.7
0-8	92.0	106.8	-0.4	97.2	110.5	-6.2	83.1	245.0	+2.5	97.0	140.5	+8.0	72.2	545.4	+1.1	90.1	41.4	+4.1	90.0
0-1	89.2	154.0	+0.0	90.0	105.0	4.0	79.2	227.8	1.4	90.0	125.0	14.1	67.1	522.8	1.8	80.4	28.0	10.8	95.2
2-5	90.5	150.4	+1.4	90.7	108.0	+2.5	82.2	219.4	3.7	90.1	140.0	+11.5	72.1	540.0	+1.5	81.1	21.8	+0.4	90.0
0-0	92.0	156.0	1.5	90.2	114.2	+5.2	89.1	171.0	-21.6	94.1	161.0	+15.4	70.1	563.1	+0.1	80.0	28.0	1.0	95.4
0-0	89.0	145.0	8.3	90.4	92.0	18.0	84.0	155.2	22.5	95.6	155.7	1.6	78.0	485.8	14.1	87.1	20.5	90.1	8.1
0-8	92.2	147.5	+2.4	97.1	87.3	9.7	84.1	187.0	+0.8	96.1	124.0	19.8	72.0	490.8	4.5	77.4	27.0	+2.7	90.4
1-2	93.4	105.0	+11.1	97.1	90.0	+10.6	84.1	218.5	+16.5	95.0	145.1	+14.0	70.4	557.5	+10.4	80.1	52.8	+20.5	97.0
1-4	92.0	104.8	+0.4	97.1	100.2	+1.7	87.7	200.8	6.1	90.0	146.2	0.0	70.1	493.2	11.3	70.1	53.5	-2.7	98.8
1-2	92.0	158.0	4.5	90.5	104.5	+4.1	87.1	215.0	+5.4	90.4	147.0	+5.2	73.1	525.0	+0.6	78.0	65.5	+11.1	99.2
-0-2	91.0	144.0	2.1	97.1	100.7	3.6	87.6	155.4	28.0	97.2	128.5	0.8	74.4	507.5	3.5	75.8	42.2	0.1	98.5
1-2	88.8	150.4	1.0	97.0	91.5	-0.1	84.8	120.5	22.6	98.0	103.4	16.1	66.1	478.8	5.6	75.0	52.4	+0.0	98.8
8-4	89.0	146.8	-2.4	90.0	77.0	18.2	83.1	141.0	+17.0	97.2	108.1	+4.5	70.0	457.4	8.7	85.8	20.4	0.0	98.0
2-0	88.4	NA	NA	NA	69.8	10.0	80.0	170.8	+20.4	97.0	127.0	+18.1	73.5	449.4	+1.8	74.0	40.0	+16.2	98.5
2-1	7.0	5.0	+30.0	1.0	26.5	14.2	18.4	7.2	+44.0	3.0	82.2	1.7	27.0	84.1	+33.3	1.5	0.1	30.0	3.1
0-0	8.0	4.0	17.0	2.8	22.5	14.4	10.9	7.4	+2.8	1.0	50.5	+7.8	27.8	91.8	20.7	9.0	0.5	+20.0	1.0
2-1	10.8	5.1	+17.4	1.4	27.8	+23.5	20.8	8.4	+11.5	1.0	61.0	+8.1	32.7	82.2	+47.5	3.0	1.4	+0.0	4.8
1-4	9.5	5.5	+1.8	3.1	25.5	15.5	17.8	8.5	1.2	3.7	54.1	11.1	27.0	67.7	+42.0	16.0	1.7	+20.4	3.4
2-4	7.4	6.2	+12.7	3.8	14.0	40.4	10.9	8.8	+0.0	4.0	50.0	+0.5	21.0	84.8	21.1	1.1	1.4	17.0	4.0
2-3	10.1	5.3	+14.5	1.0	17.8	+27.1	16.1	6.1	30.7	4.4	45.0	14.2	22.0	111.1	+11.0	18.7	0.9	64.3	4.0
2-0	7.8	4.1	17.0	2.0	16.2	0.0	15.7	7.7	+26.2	3.0	47.1	+7.1	27.4	196.2	+22.6	22.6	1.0	+20.0	1.0
7-7	6.6	1.8	+0.1	2.0	15.0	19.7	11.9	9.5	+26.8	4.1	44.2	0.2	24.6	146.5	+0.1	19.7	0.8	+20.0	2.4
1-2	7.4	4.0	+2.1	2.0	14.0	+7.7	12.1	7.4	-22.5	3.4	55.1	+24.7	20.7	120.0	8.1	20.7	0.4	50.0	1.2
1-2	7.4	5.7	+10.3	4.5	15.2	+8.0	12.7	8.1	+11.0	3.6	50.5	8.7	20.9	148.2	+14.0	22.0	0.9	25.0	0.8
1-7	9.0	4.0	19.3	2.0	14.2	-0.0	12.4	4.5	+4.4	2.8	42.5	15.5	25.0	161.0	+0.0	24.2	0.4	+33.3	4.2
+0-8	11.2	4.0		3.0	10.4	+15.5	15.2	5.2	+15.5	4.1	52.5	+23.5	31.7	154.0	4.3	24.4	0.4		4.2
10-2	11.0	4.7	+2.2	4.1	13.4	18.3	14.7	4.1	21.1	2.8	40.4	11.0	30.0	86.4	49.1	30.9	0.0	+50.0	2.0
+1.5	11.6	NA	NA	NA	10.8	+25.4	19.4	1.2	+2.4	2.4	41.5	10.6	24.5	28.3	-6.2	-0.0	0.0		1.5

ACTUAL CAPACITY SUMMARY

ANNUAL RATE 1979-1982

DATE OF SURVEY	YARN+MONOFILAMENTS						OLEFIN ^b	
	ACE-TATE ^a	NYLON			POLYESTER			TOTAL
		IND	TEXT	CARP	IND	TEXT		
MAY 1979	520	522	573	955	442	1042	908	
NOV 1979	555	515	579	950	445	1099	922	
MAY 1980	500	519	585	951	440	1040	950	
NOV 1980	524	515	551	910	400	1057	900	
MAY 1981	523	510	550	877	389	1451	939	
NOV 1981	552	514	553	893	510	1481	989	
MAY 1982	518	518	552	920	557	1205	991	

DATE OF SURVEY	STAPLE+TOW					OLEFIN+ VINYLON
	RAYON	NYLON+ ARAMID		ACRYLIC+ MOD-ACRYLIC		
		IND	TEXT	IND	TEXT	
MAY 1979	671	1050		855	2637	150
NOV 1979	671	1020		859	2673	146
MAY 1980	514	991		848	2735	152
NOV 1980	514	991		850	2759	154
MAY 1981	514	970		850	2716	245
NOV 1981	500	1010		855	2849	260
MAY 1982	510	987		844	2817	275

IND means industrial yarn and monofil, i.e., with an Instron tenacity of 7 grams per denier or more.

TEXT means yarn & monofil for other (textile) applications. Included is low denier industrial yarn.

CARP means bulked continuous filament yarn for carpets.

a. The data do not include the poundages of acetate tow for cigarette filtration.

b. Olefin includes polyethylene & polypropylene, but not data on spunbonded polyethylene, monofilament bristles, film fiber used for decorative or tying ribbon, etc. Total includes yarn, monofil and film fiber; monofil includes the circular and rectangular (ribbon) cross sections plus spunbonded polypropylene and film fiber includes slit and split or fibrillated film.

TOTAL & DOMESTIC SHIPMENTS AS A PERCENTAGE OF CAPACITY^a

PERCENT

YEAR & QUARTER (Q)	ACETATE	YARN+MONOFILAMENTS						STAPLE+TOW					
		NYLON+ARAMID			POLYESTER		OLEFIN	RAYON	NYLON+ ARAMID	ACRYLIC+ MOD- ACRYLIC	POLYESTER	OLEFIN+ VINYLON	
		INDUSTRIAL	TEXTILE	CARPET	INDUSTRIAL	TEXTILE							
TOTAL SHIPMENTS													
1979	1Q	91.5	105.0	92.8	72.9	91.5	79.2	67.8	85.8	93.1	89.1	95.2	82.7
	2Q	89.0	93.8	92.8	80.0	88.5	80.1	71.5	79.2	95.4	90.0	90.3	80.8
	3Q	88.7	88.0	87.4	85.0	72.8	74.5	69.1	70.7	92.0	89.0	90.5	80.5
	4Q	91.0	93.7	87.5	81.8	77.0	75.1	71.5	78.7	89.4	92.3	95.5	86.4
1980	1Q	99.0	98.1	95.0	84.0	82.4	78.5	72.5	99.8	72.9	102.3	94.9	90.4
	2Q	90.5	77.8	80.0	72.7	65.9	70.5	66.5	85.9	50.2	90.2	80.2	80.0
	3Q	89.4	77.0	75.0	80.0	100.2	69.1	67.4	80.5	78.8	82.9	87.4	85.0
	4Q	84.2	93.4	92.8	95.1	80.8	75.8	74.8	85.3	91.9	90.3	100.0	100.5
1981	1Q	77.1	82.0	85.7	87.0	95.7	85.4	68.4	89.7	84.0	88.8	87.7	68.0
	2Q	93.8	79.8	80.1	89.0	98.5	95.0	60.4	94.1	88.7	89.7	95.0	54.8
	3Q	78.7	78.8	80.0	70.7	99.0	86.4	64.5	90.3	65.5	79.5	94.5	49.0
	4Q	64.0	72.4	75.4	55.1	94.8	70.0	62.7	84.8	49.7	74.7	89.2	49.3
1982 ^b	1Q	67.5	67.1	69.1	56.5	95.2	81.4	61.1	71.4	59.2	73.2	74.4	45.5
	2Q	67.0	65.9	67.0	65.5	95.4	70.0	60.3	67.9	70.9	80.3	67.2	58.9
DOMESTIC SHIPMENTS													
1979	1Q	80.9	87.0	89.0	69.1	80.1	74.1	65.3	70.1	90.2	64.2	80.4	82.5
	2Q	81.5	78.7	87.2	82.9	81.0	74.7	69.5	65.7	92.5	69.7	81.3	80.0
	3Q	81.1	72.0	82.8	70.1	64.0	66.5	60.8	65.1	89.3	56.9	78.2	70.7
	4Q	81.0	75.5	83.8	77.8	68.1	68.0	69.1	64.7	80.0	66.7	79.4	81.0
1980	1Q	90.0	82.0	91.5	80.7	71.8	72.7	69.7	88.9	69.4	77.9	81.0	80.3
	2Q	88.8	61.7	82.7	69.2	52.0	65.2	65.9	72.1	53.8	75.0	70.1	78.5
	3Q	79.0	61.1	72.4	74.4	50.7	65.7	65.5	67.9	75.7	60.2	67.7	80.0
	4Q	74.7	70.5	88.5	89.8	74.1	70.9	72.7	75.2	88.2	69.0	80.8	67.9
1981	1Q	64.3	66.2	80.0	82.4	80.5	77.2	66.4	78.7	81.1	62.4	69.5	48.0
	2Q	84.2	67.0	81.8	83.7	90.5	80.7	64.1	82.1	85.5	65.0	74.1	54.4
	3Q	69.3	68.1	77.0	65.7	63.0	78.7	62.7	79.1	61.5	59.2	71.5	48.4
	4Q	54.7	61.9	73.0	52.0	87.0	67.5	60.8	71.9	47.0	49.5	67.5	48.7
1982 ^b	1Q	56.5	54.9	67.1	53.7	80.9	72.4	59.2	60.9	57.5	51.2	62.1	42.0
	2Q	59.2	52.8	65.5	61.5	85.2	70.5	NA	54.7	69.2	60.0	65.2	58.0

See footnotes above, Actual Capacity Summary, for complete item descriptions.

NA means not available.

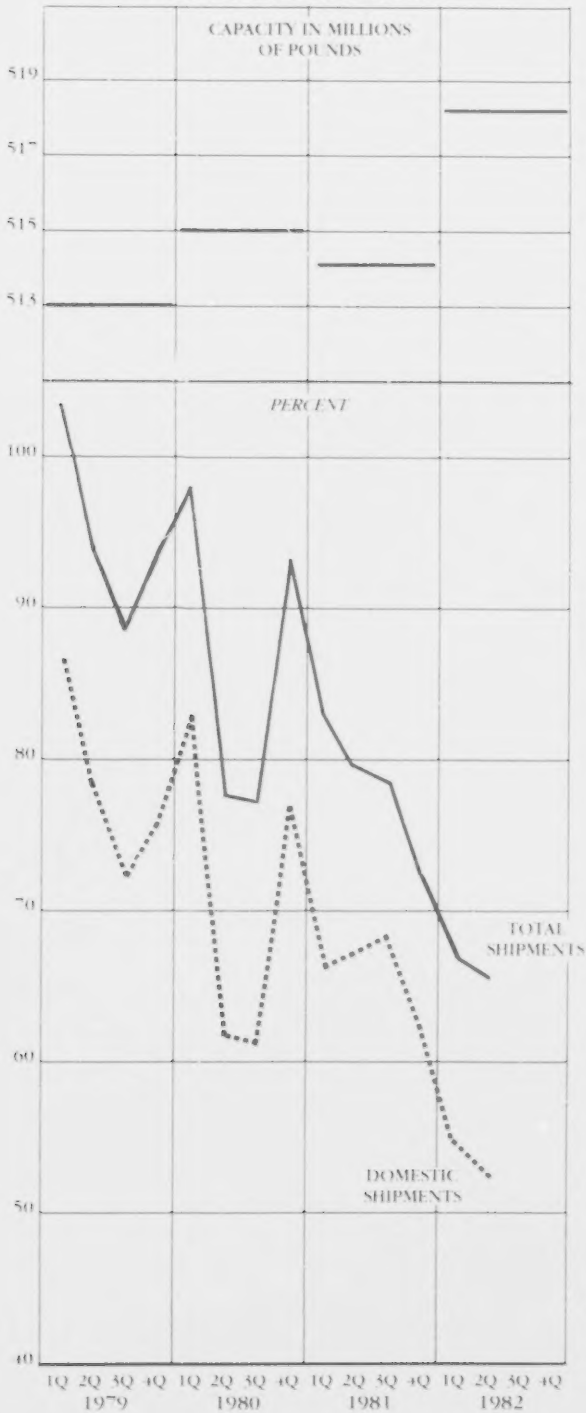
a. Percentages are tabulated from the shipment table on pages 168-169

and the capacity table above.

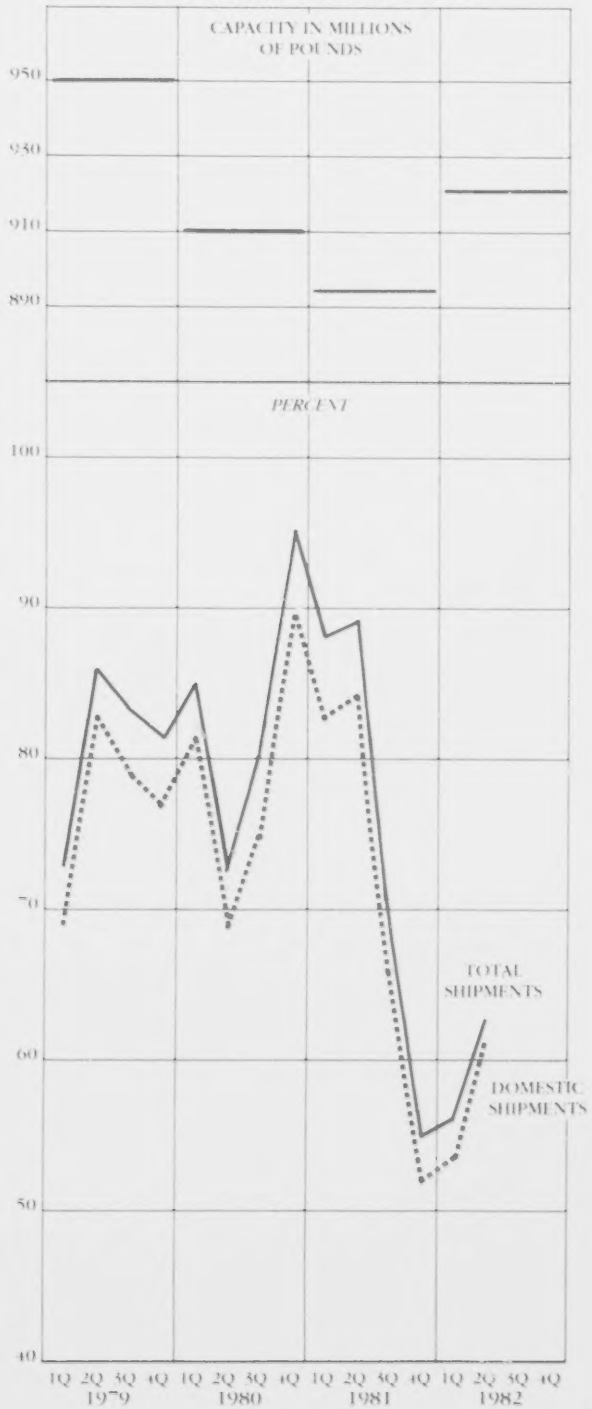
b. Both first and second quarter data are tabulated using the capacity survey of May 1982.

NYLON CAPACITY & SHIPMENTS AS A PERCENTAGE OF CAPACITY

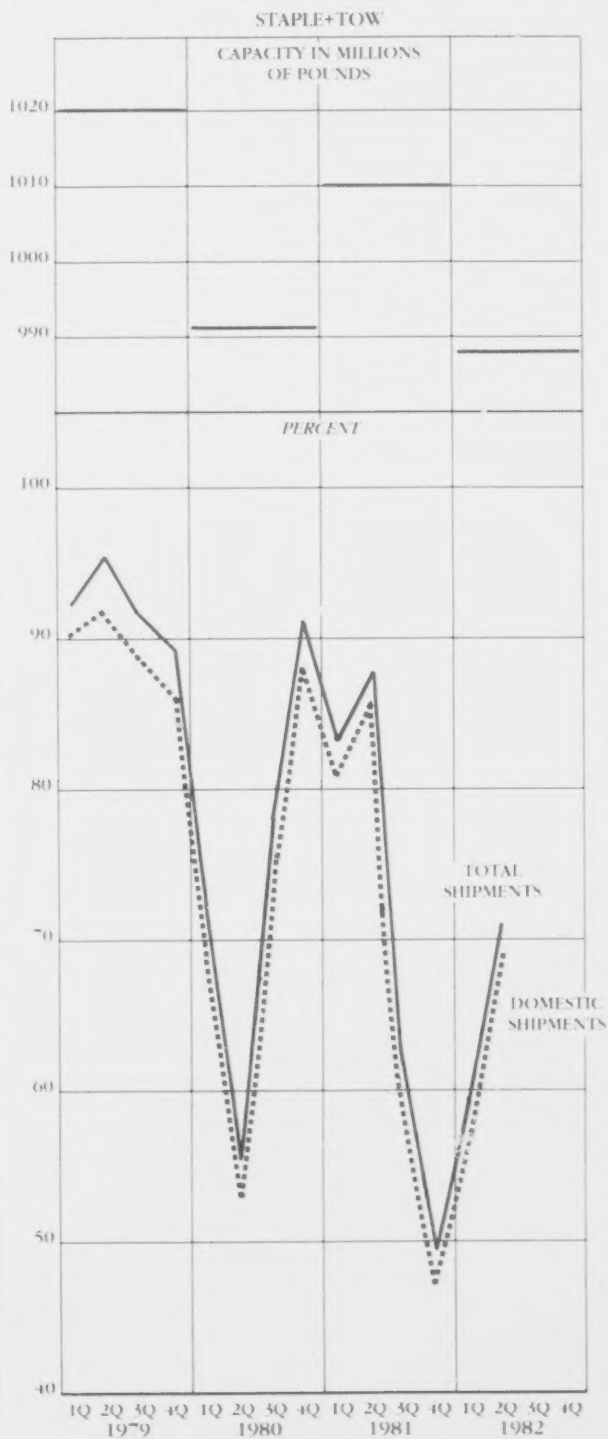
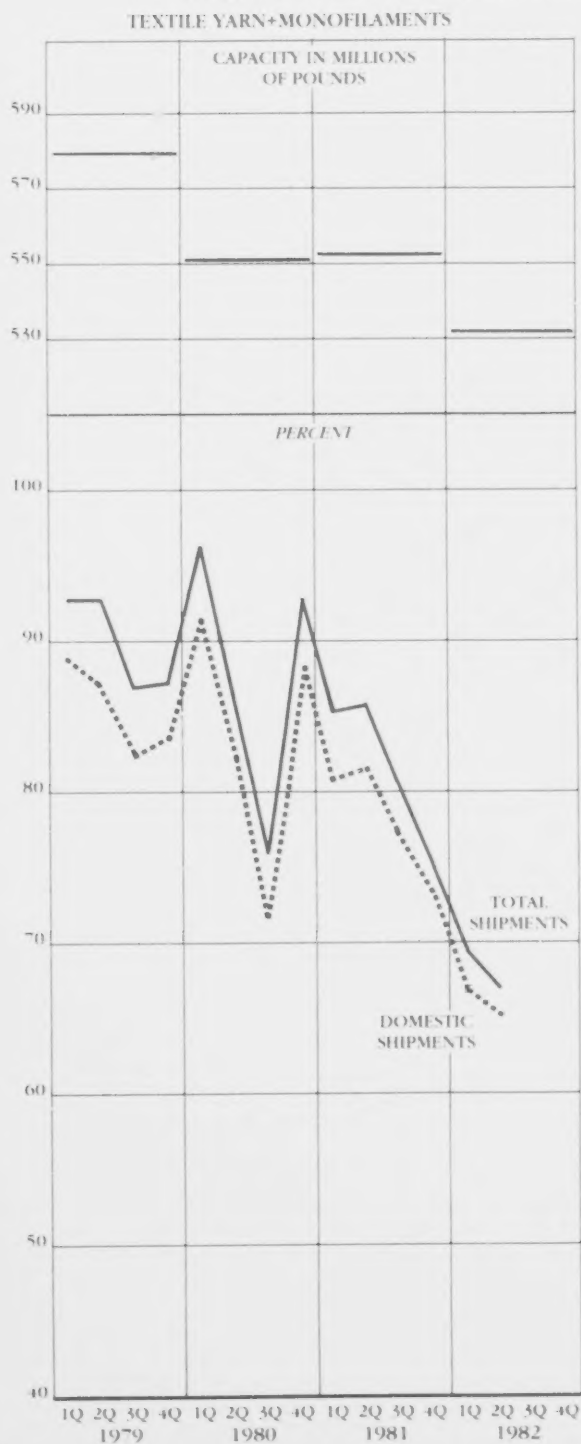
INDUSTRIAL YARN+MONOFILAMENTS



CARPET YARN+MONOFILAMENTS

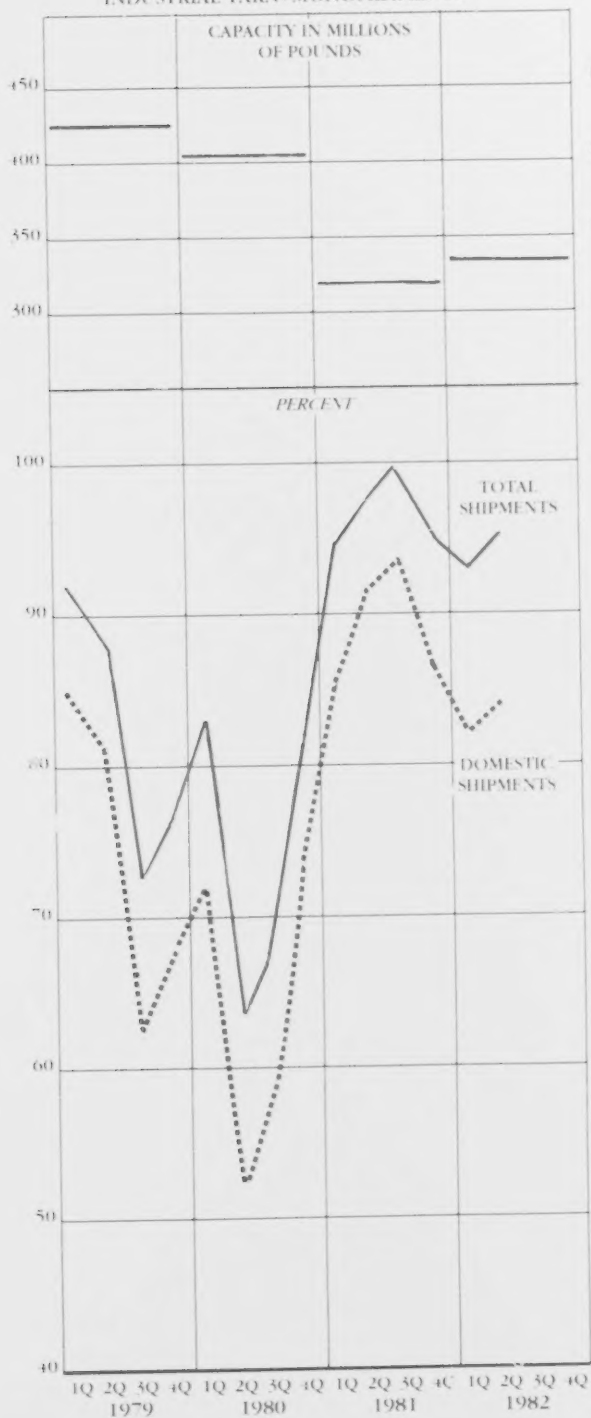


NYLON CAPACITY & SHIPMENTS AS A PERCENTAGE OF CAPACITY (Contd.)

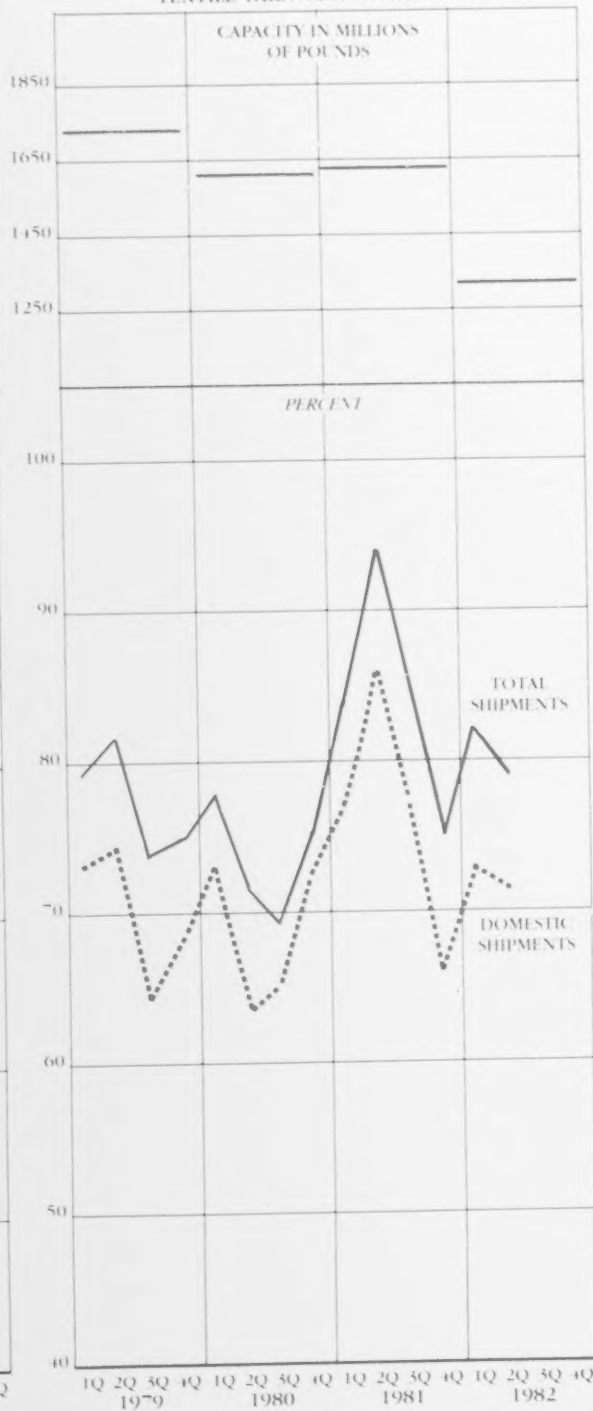


POLYESTER CAPACITY & SHIPMENTS AS A PERCENTAGE OF CAPACITY

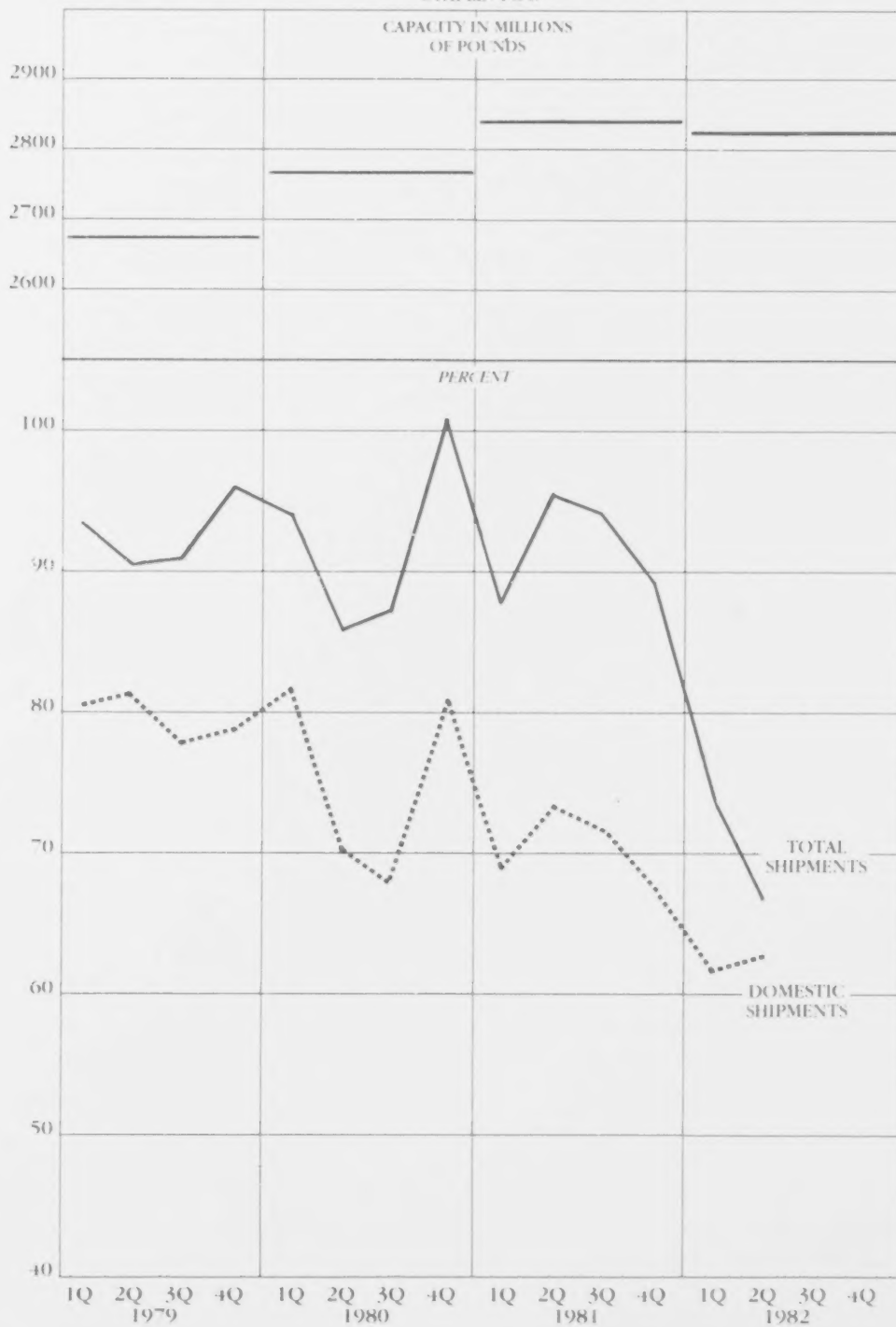
INDUSTRIAL YARN+MONOFILAMENTS

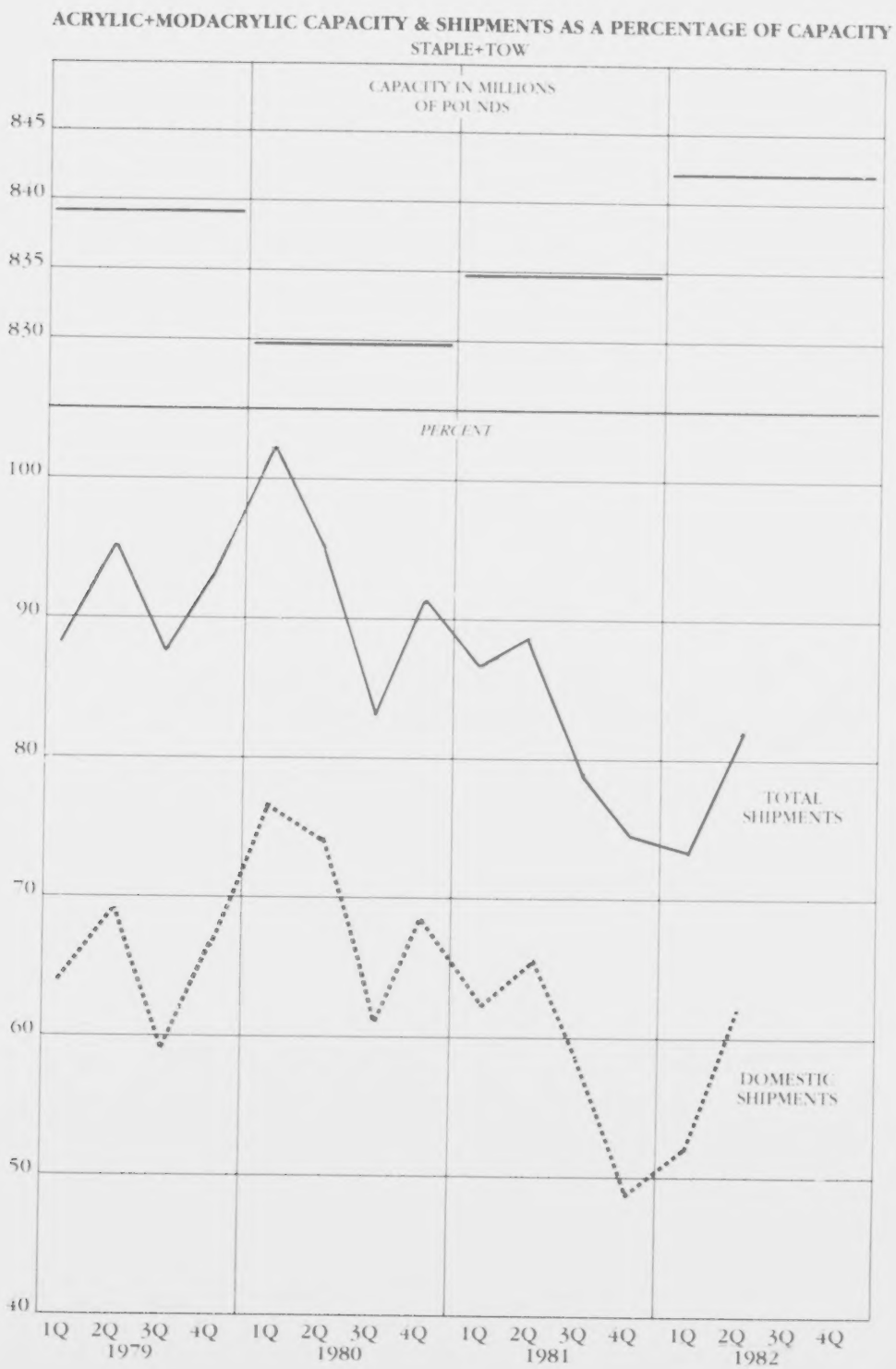


TEXTILE YARN+MONOFILAMENTS

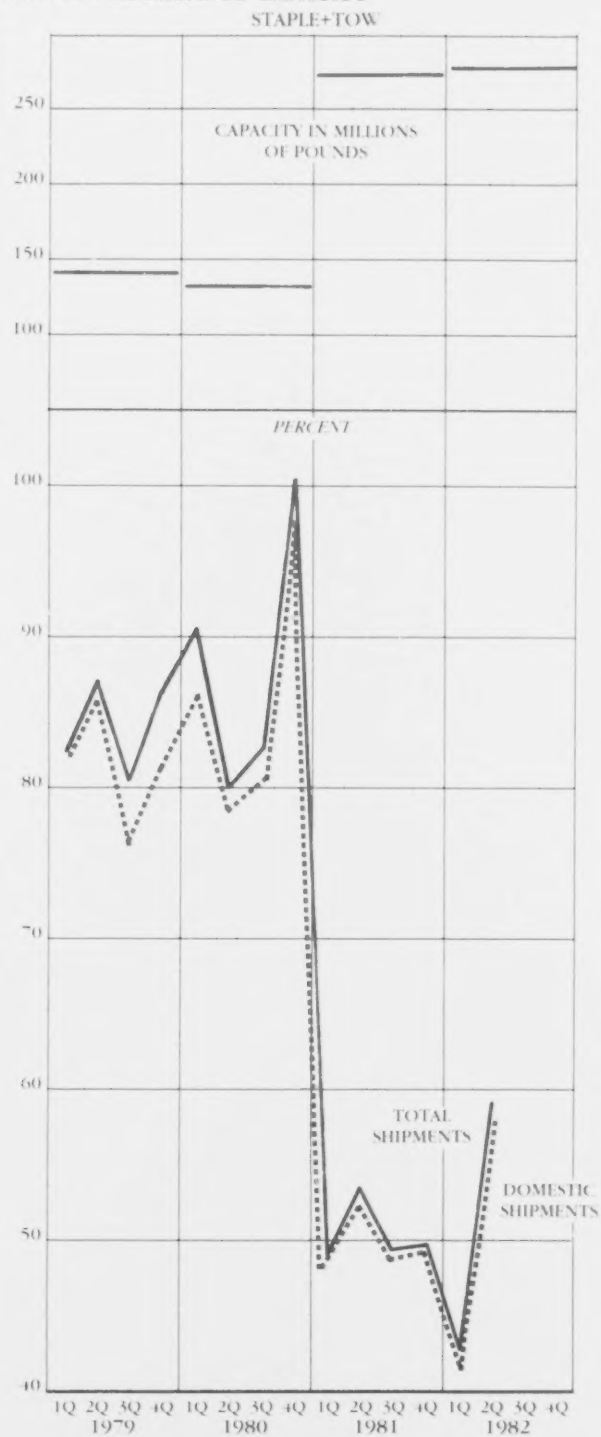
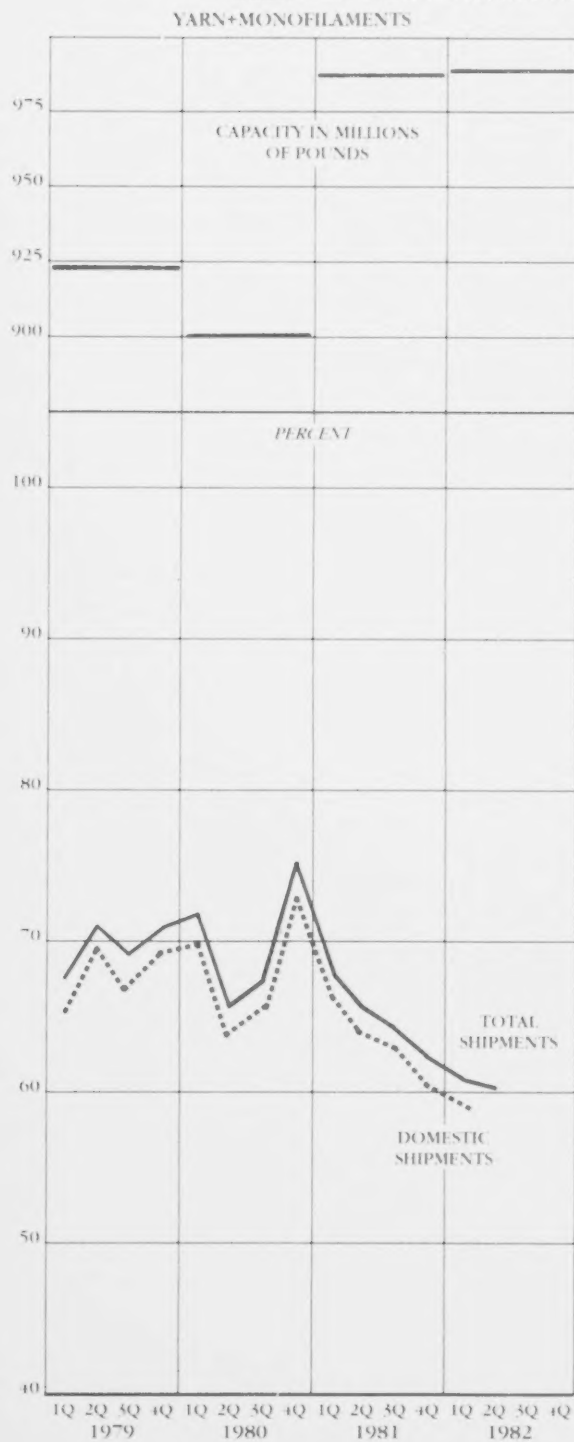


POLYESTER CAPACITY & SHIPMENTS AS A PERCENTAGE OF CAPACITY (Contd.)
 STAPLE+TOW

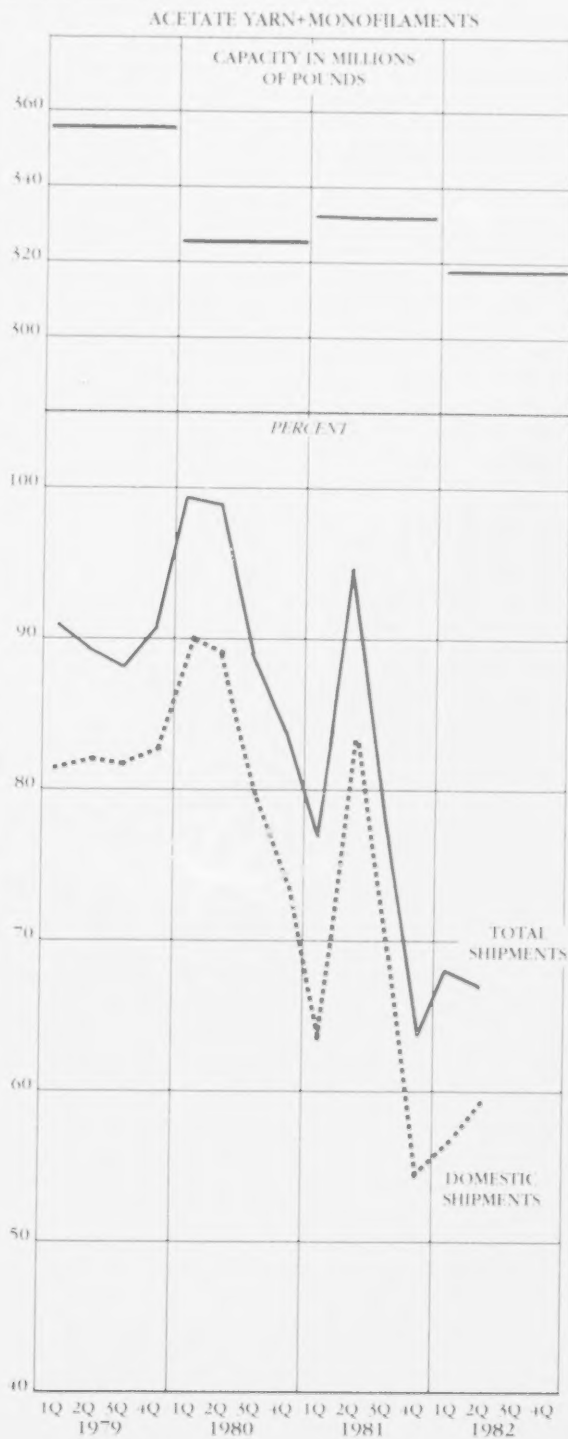
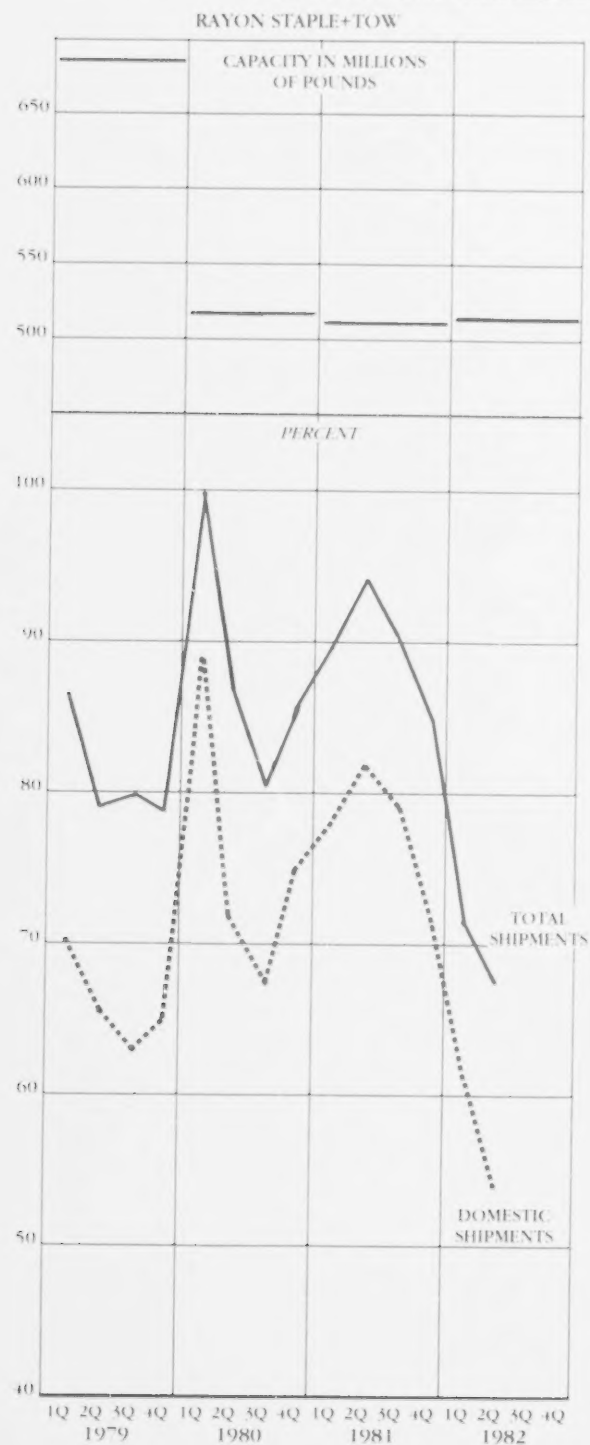




OLEFIN CAPACITY & SHIPMENTS AS A PERCENTAGE OF CAPACITY



RAYON+ACETATE SHIPMENTS AS A PERCENTAGE OF CAPACITY



SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1982	1981
MAN-MADE FIBER DATA^c														
YARN*MONOFILAMENTS^d														
TOTAL SHIPMENTS^b														
ACETATE	19.1	16.9	17.7	19.4	16.5	17.4	12.2						119.2	167.3
NYLON ^e	26.2	29.2	31.5	30.8	26.7	28.3	25.5						196.2	249.2
LOW DENIER INDUSTRIAL ^f	2.6	2.3	2.0	2.5	2.2	2.7	1.9						16.8	20.7
CARPET	40.5	45.3	46.0	40.1	51.2	48.5	42.6						517.8	455.0
TEXTILE	27.9	27.0	29.5	28.3	26.6	26.7	23.4						187.5	251.1
POLYESTER	22.6	24.4	27.8	26.3	22.9	27.4	21.8						173.2	179.7
LOW DENIER INDUSTRIAL ^f	1.9	1.8	1.9	1.9	1.9	2.1	1.5						13.0	17.5
TEXTILE	75.4	87.8	88.5	88.2	79.3	78.3	61.2						558.7	742.8
OLEFIN ^h	50.1	50.4	51.0	49.3	48.9	50.1	49.5						449.3	587.0
TOTAL NONCELLULOSIC ABOVE ⁱ	247.0	266.2	278.8	273.5	259.7	263.9	223.4						1812.5	2290.8
STAPLE* TOW* FIBERFILL^j														
RAYON	30.3	28.9	31.8	29.0	27.7	29.9	25.2						202.8	273.3
NYLON ^e	48.0	48.5	49.7	55.9	61.0	58.1	51.4						572.4	498.5
ACRYLIC*MODACRYLIC	65.8	47.7	61.0	52.7	57.5	59.2	47.6						571.5	424.5
POLYESTER	174.3	170.4	174.0	161.7	156.6	155.3	129.5						1126.0	1509.1
OLEFIN*VINYLON	8.5	10.2	11.4	10.8	14.9	14.8	11.6						82.0	78.8
TOTAL NONCELLULOSIC ABOVE	275.4	282.6	296.1	281.1	290.0	287.4	239.9						1952.5	2510.7
END-OF-MONTH STOCK														
ACETATE	12.4	11.7	13.5	11.0	11.9	13.2	12.3						12.3	11.4
NYLON ^e	41.7	37.6	35.1	30.4	31.7	35.3	36.5						36.5	45.8
LOW DENIER INDUSTRIAL ^f	4.5	4.5	4.1	4.0	4.0	4.5	4.6						4.6	5.6
CARPET	62.3	58.0	55.5	53.9	49.5	51.4	59.6						59.6	47.9
TEXTILE	50.9	52.9	51.1	48.6	45.9	45.3	43.4						43.4	45.1
POLYESTER	25.7	25.1	25.2	24.6	27.1	27.8	28.1						28.1	24.1
LOW DENIER INDUSTRIAL ^f	4.0	3.4	3.8	3.7	3.6	2.7	2.5						2.5	3.6
TEXTILE	93.4	89.9	93.4	91.9	87.1	81.7	85.8						85.8	89.4
OLEFIN ^h	64.5	64.0	64.5	65.0	63.5	63.1	61.5						61.5	61.8
TOTAL NONCELLULOSIC ABOVE ⁱ	344.8	335.4	330.7	321.3	312.8	307.8	320.0						320.0	319.3
STAPLE* TOW* FIBERFILL^j														
RAYON	32.6	35.6	36.3	35.1	36.2	36.4	37.8						37.8	23.2
NYLON ^e	63.9	58.7	59.3	53.4	48.9	53.6	64.1						64.1	61.0
ACRYLIC*MODACRYLIC	68.6	65.2	60.2	67.5	63.5	61.9	66.0						66.0	67.8
POLYESTER	180.4	191.9	189.2	186.6	185.8	175.2	181.7						181.7	195.4
OLEFIN*VINYLON	30.0	31.3	31.6	29.3	24.7	21.9	21.6						21.6	16.7
TOTAL NONCELLULOSIC ABOVE	342.9	347.1	340.3	337.0	323.1	312.6	333.4						333.4	340.9
WOOL & COTTON CONSUMPTION														
APPAREL CLASS WOOL	11.0	10.6	13.0	10.5	10.1								55.8	62.4
CARPET CLASS WOOL	0.7	0.9	1.0	0.8	1.0								4.4	4.1
TOTAL RAW WOOL	12.3	11.5	14.0	11.3	11.1								60.2	66.5
RAW COTTON	207.2	198.6	228.7	217.3	211.7	197.5							1261.0	1413.2

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn*monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple*tow data are available annually only; see page 21 of the February issue.

Textile Organon

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MONTHLY REVIEW

Highlights

Total Shipments of Polyester Staple+Tow Rebound in August After 5-Month Decline ... see page 194.

Second Quarter Domestic Shipments of Noncellulosic Fibers Up From First Quarter ... see pages 192 & 193.

1981 World Man-Made Fiber Production, Import, Export & Net Available Supply ... featured page 183.

Textile Organon Special 6-page Foldout: 1982 Directory of U.S. Man-Made Fiber Producers ... begins page 185.

Shipments of nylon yarn to the carpet trades rose in August, the first increase since May, though shipments of nylon industrial yarn fell for the second consecutive month.

August shipments of polyester textile yarn+monofilaments increased for the first time in five months and shipments of polyester industrial yarn rose after a decline in July to the lowest level yet recorded this year.

Shipments of both olefin yarn+monofilaments and olefin+vinyon staple+tow rose in August.

Polyester staple+tow shipments reversed a 5-month decline by rising to the highest level since March.

Shipments of acrylic+modacrylic staple+tow rose in August after a steep decline in July and nylon staple+tow shipments rose to the highest level in over a year.

ITEM	1982		a ^a	1981	b ^b	YEAR TO DATE		c ^c
	AUG	JULY		AUG		1982	1981	
TOTAL SHIPMENTS								
MILLION POUNDS & Percent								
MAN-MADE FIBER DATA								
YARN+MONOFILAMENTS								
ACETATE	17.3	12.2	+41.8	19.9	-13.1	136.5	187.2	-27.1
NYLON INDUSTRIAL	21.9	23.5	-6.8	35.7	-38.6	218.1	274.9	-20.7
LOW DENIER INDUSTRIAL	2.5	1.9	+31.6	2.9	-13.8	19.3	23.6	-18.2
CARPET	60.2	42.6	+41.3	52.9	+13.8	378.0	505.9	-25.3
TEXTILE	29.3	21.4	+36.9	34.8	-15.8	216.6	285.9	-24.2
POLYESTER INDUSTRIAL	23.8	21.8	+9.2	26.8	-11.2	197.0	206.5	-4.6
LOW DENIER INDUSTRIAL	2.1	1.5	+40.0	1.9	+10.5	15.1	19.2	-21.3
TEXTILE	73.6	61.2	+20.3	107.3	-31.4	632.3	850.1	-25.6
OLEFIN	50.2	49.5	+1.4	54.2	-7.4	399.5	441.2	-9.4
TOTAL NONCELLULOSIC ABOVE	263.6	223.4	+18.0	316.5	-16.7	2075.9	2607.3	-20.4
STAPLE+TOW+FIBERFILL								
RAYON	28.9	25.2	+14.7	36.8	-21.5	231.7	310.1	-25.3
NYLON	68.3	51.4	+32.9	52.8	+29.4	440.7	551.1	-20.0
ACRYLIC+MODACRYLIC	58.5	47.6	+22.9	59.8	-2.2	430.0	484.3	-11.2
POLYESTER	163.0	129.3	+26.1	232.9	-30.0	1289.6	1742.0	-26.0
OLEFIN+VINYON	12.5	11.6	+7.8	11.3	+10.6	94.5	90.1	+4.9
TOTAL NONCELLULOSIC ABOVE	302.3	239.9	+26.0	356.8	-15.3	2254.8	2867.5	-21.4

a. Percent change from previous month to current month.

b. Percent change to current month from same month last year.

c. Percent change from cumulative total last year to cumulative total this year.

Also see footnotes on last page of this issue.

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Textile Organon

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DIRECTORY OF U.S. MAN-MADE FIBER PRODUCERS

The 1982 *Textile Organon* directory of U.S. man-made fiber producers, which updates and augments the listings presented in the September 1981 and June 1982 issues of the *Organon*, is featured in the 6-page foldout, pages 185-190.

The directory, it should be noted, presents producer listings in three categories: (1) cellulosic and non-cellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

The product arrangement follows the generic fiber nomenclature established by the U.S. Federal Trade Commission; the FTC generic definitions appear on page 185.

The following generic names listed by the FTC do not appear in the directory: anidex, azlon, lastrile, nytril and vinal (not made in this country) and metallic, novoloid and rubber (no attempt is made to list these producers).

IMPORTS, EXPORTS & BALANCE

The 1981 by-country production, import, export and net available or retained supply of four categories of man-made fiber are presented on page 183.

In the table, "yarn" includes tire cord and tire cord fabric, filament yarn and monofilaments. Staple includes tow, fiberfill and tops. Spun yarn includes advanced waste. Unprocessed waste is not included.

In a few cases where a country's import or export data could not be accurately separated as cellulosic versus noncellulosic, a division was estimated.

Except for spun yarn imports and exports, imports and exports of manufactured and semimanufactured man-made fiber products (e.g., fabric dresses, hosiery, etc.) are not included in the data.

The table shows the net import-export tonnage of spun yarn under the "Total Man-Made Fiber" columns; space does not permit the presentation of import and export data separately.

1981 MAN-MADE FIBER PRODUCTION, IMPORT, EXPORT & NET AVAILABLE SUPPLY BY COUNTRY (EXCEPT OLEFIN & TEXTILE GLASS)

THOUSAND METRIC TONS

COUNTRY & AREA	CELLULOSIC								NONCELLULOSIC								TOTAL MAN-MADE FIBERS					
	YARN				STAPLE+TOW				YARN				STAPLE+TOW				PROD	IMPORT	EXPORT	CELL SPUN	NC SPUN	NET AVAIL
	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL	PROD	IMP	EXP	AVAIL						
WEST EUROPE																						
AUSTRIA	15.2	4.6	13.2	6.6	101.6	2.7	85.4	20.9	0	25.3	4.5	20.8	24.0	20.8	19.0	25.8	140.8	53.4	120.1	-14.0	4.2	56.9
BELGIUM	38.6	15.5	44.2	9.9	14.6	32.3	27.5	19.4	80.4	160.0	111.6	128.8	25.3	107.3	40.7	91.9	158.9	315.1	224.0	+16.0	+20.3	286.3
IRELAND (EIRE)	0	1.4	-	1.4	0	1.1	0.8	0.3	7.5	17.9	13.2	12.2	31.3	40.1	3.9	67.5	38.8	64.5	17.9	-	-0.8	80.6
FINLAND	0	0.9	0.1	0.8	46.6	4.6	42.2	9.0	0.6	12.4	0.8	12.2	0	12.0	-	12.0	47.2	29.9	45.1	+1.3	+3.4	58.7
FRANCE	11.0	26.0	14.0	25.0	42.9	16.6	31.2	28.3	66.4	79.2	55.3	50.3	134.8	96.5	80.1	151.2	255.1	218.3	180.6	+1.2	+1.3	295.3
GERMANY, FED. REP. OF	65.0	24.3	44.8	44.5	50.0	36.2	34.8	51.4	520.7	99.1	279.8	140.0	431.5	86.7	327.0	191.2	867.2	246.3	686.4	1.0	+3.1	429.2
GREECE	7.2	0.1	11.1	3.8	0	4.0	-	4.0	9.0	6.0	6.7	8.5	10.4	25.9	2.7	5.6	26.6	36.0	20.5	0.2	-5.1	38.8
ITALY (MALTA)	55.1	17.7	14.1	38.7	24.4	26.8	6.0	45.2	149.6	54.3	115.2	88.7	286.3	119.0	177.1	228.2	495.4	217.8	512.4	6.6	-60.0	534.2
NORWAY	0	0.5	-	0.5	28.4	0.8	26.8	2.4	0	5.5	0.6	4.9	0	4.2	0.1	4.1	28.4	11.0	27.5	+0.3	+1.4	13.6
PORTUGAL	2.9	1.6	0.3	4.2	1.0	10.8	-	11.8	1.4	16.8	1.4	16.8	34.0	9.8	5.3	38.5	39.3	39.0	7.0	1.9	-2.1	67.3
SPAIN	12.6	1.1	3.2	10.5	37.8	8.8	7.7	38.9	72.3	8.2	12.1	68.4	108.9	34.2	52.7	150.4	291.6	52.3	75.7	1.5	-11.2	255.5
SWEDEN	0	2.6	0.8	1.8	54.7	5.5	50.2	10.0	0.1	14.2	1.6	12.7	0	7.8	0.1	7.7	34.8	30.1	32.7	+0.3	+3.8	36.3
SWITZERLAND	1.5	0.1	0.7	0.9	0	9.2	-	9.2	61.6	0.5	66.1	2.0	22.0	13.4	22.7	12.7	85.1	29.2	89.5	+0.8	-2.9	22.7
TURKEY	0.5	2.0	0	2.5	5.0	1.8	0	6.8	26.5	9.9	0.1	36.3	65.0	6.4	2.6	68.8	96.8	20.1	2.7	0	+6.5	120.5
UNITED KINGDOM	27.0	14.9	21.9	20.0	102.4	29.7	89.0	43.1	99.4	106.4	61.9	143.9	149.4	69.8	98.8	120.4	378.2	220.8	271.6	+0.2	+22.1	349.7
TOTAL WEST EUROPE	216.4	113.3	168.4	161.3	489.4	190.9	379.6	300.7	895.5	621.7	730.9	786.3	1382.9	653.9	832.8	1204.0	2984.2	1579.8	2111.7	-5.1	-21.6	2425.6
U.S.A.	138.6	4.9	16.5	127.0	210.7	7.6	28.2	190.1	1438.8	10.3	180.6	1268.5	1836.7	29.1	358.7	1507.1	3624.8	51.9	584.0	+0.1	-10.1	3082.7
OTHER AMERICAS																						
ARGENTINA	1.0	0.7	-	1.7	0	1.1	0	1.1	16.0	2.7	-	18.7	8.3	6.2	0.3	14.2	25.3	10.7	0.3	-	-0.3	35.4
BRAZIL	21.0	0.5	3.8	17.7	25.5	0.6	0.9	25.0	115.0	4.6	0.6	119.0	86.7	6.4	4.0	89.2	248.1	12.1	9.3	-	+0.2	251.1
CANADA	13.5	7.8	5.1	16.2	28.2	1.8	19.7	10.3	65.9	27.0	23.3	69.6	43.9	42.1	11.9	74.1	151.5	78.7	60.0	0	+5.8	176.0
CHILE	1.0	0.4	-	1.4	3.0	1.2	0	4.2	5.0	2.2	0	7.2	2.5	5.8	0	8.3	11.5	9.6	-	-	0.5	20.8
COLOMBIA	1.8	0.1	0.1	1.8	0	0.9	0	0.9	20.2	1.8	0	22.0	11.2	3.5	0	14.7	33.2	6.3	0.1	-0.2	-0.2	39.2
COSTA RICA	0	0.2	0.2	0	0	0	-	0	3.0	2.1	-	5.1	0	2.3	-	2.3	3.0	4.6	0.2	-	-	7.4
CUBA	2.2	0.2	0.2	2.2	3.8	0.8	0	4.6	0	1.3	0	1.5	0	1.9	0	1.9	6.0	4.2	0.2	-0.2	-0.4	9.4
ECUADOR	0	0.5	0.5	0	0	1.5	0	1.5	3.5	3.0	-	6.5	0	5.7	0	5.7	3.5	10.7	0.5	-	-0.1	13.6
MEXICO	16.6	0.3	0.3	16.6	11.3	4.2	2.6	12.9	134.1	6.7	2.2	138.6	107.6	5.8	1.9	111.5	269.6	17.0	7.0	-	+0.3	279.9
PERU	1.3	0.6	-	1.9	0	2.1	-	2.1	10.1	2.2	0.4	11.9	21.1	1.6	-	22.7	32.5	6.5	0.4	0	-0.1	38.5
URUGUAY	1.0	0.1	0.4	0.7	0	2.4	0	2.4	0.9	0.9	0.3	1.5	2.1	1.3	0.5	2.9	4.0	4.7	1.2	-	-	7.5
VENEZUELA	2.8	1.0	1.0	2.8	0	7.6	0	7.6	11.2	13.6	0	24.8	6.0	0.9	0	6.9	20.0	23.4	1.0	-	-0.2	41.9
TOTAL OTHER AMERICAS	62.2	12.4	17.6	63.0	71.6	24.2	23.2	72.6	384.9	68.1	26.8	426.2	289.5	83.5	18.6	354.4	808.2	188.2	80.2	-0.2	+4.7	920.7
JAPAN	118.7	0.6	51.1	68.2	273.5	0.4	141.5	132.4	607.0	27.0	126.4	507.6	721.8	14.1	263.5	472.4	1721.0	42.1	582.5	-4.3	-47.1	1129.2
AFRICA, ASIA & OCEANIA																						
AUSTRALIA N.Z.	0	3.2	-	3.2	0	3.6	-	3.6	10.0	18.7	-	28.7	0	20.3	-	20.3	10.0	45.8	-	-0.6	-12.2	43.0
BANGLADESH	4.0	-	-	3.0	0	6.2	0	6.2	0.2	1.3	0	1.5	0	0.4	0	0.4	3.2	7.9	0	-	-0.1	11.0
EGYPT	6.0	0.4	0	6.4	4.0	-	0.1	4.9	2.0	9.2	-	11.2	5.0	6.9	0.7	11.2	17.0	16.5	0.8	-0.1	-2.2	30.4
INDIA	55.9	3.2	1.0	58.1	94.5	85.3	-	179.8	50.3	29.5	-	79.8	39.8	5.0	-	44.8	240.5	123.0	1.0	-	-0.3	362.2
INDONESIA	0	5.9	0	5.9	0	28.4	0	28.4	46.4	14.7	0.6	60.5	55.1	21.2	-	76.3	101.5	68.2	0.6	-0.6	-4.0	164.5
IRAN	0	7.5	0	7.5	0	57.1	0	57.1	4.0	12.6	0	16.6	0	26.2	-	26.2	4.0	85.4	-	-1.5	-22.5	63.4
IRAQ	3.0	1.7	0	4.7	5.5	1.6	0	7.1	0	10.5	0	10.5	0	4.7	0	4.7	8.5	18.5	0	-0.3	-4.5	22.2
ISRAEL	0	0.5	-	0.5	0	0.5	0	0.5	10.5	9.1	4.7	14.9	6.8	5.3	2.1	10.0	17.3	15.4	6.8	-0.2	-2.4	23.3
KENYA	0	0.3	0	0.3	0	1.1	0	1.1	1.0	1.6	0	2.6	0	4.8	0	4.8	1.0	7.8	0	-0.3	-0.4	8.1
KOREA, REPUBLIC OF	12.8	9.5	1.8	20.5	13.9	12.0	5.1	20.8	283.8	21.7	17.5	288.0	326.4	12.9	25.8	313.5	636.9	56.1	50.2	-2.7	-58.8	581.3
MALAYSIA	0	0.6	-	0.6	0	37.5	-	37.5	0	20.1	0.1	20.0	36.0	7.8	0.3	43.5	36.0	66.0	0.4	+0.1	-0.8	100.9
NIGERIA	0	1.5	0	1.5	0	2.2	0	2.2	2.7	9.6	0.8	11.5	2.5	1.2	2.0	1.7	5.2	14.5	2.8	2.0	-9.3	5.6
PAKISTAN	2.4	2.5	0	4.7	0	16.7	0	16.7	1.5	22.5	0	24.0	0	15.8	-	15.8	3.9	57.3	-	-0.2	-1.6	59.4
PHILIPPINES	0	0.5	0	0.5	0	21.9	0	21.9	32.0	6.9	2.2	36.7	15.0	18.8	-	33.8	47.0	48.1	2.2	-	0	92.9
SOUTH AFRICA	0	4.9	-	4.9	0	17.4	0.1	17.3	4.6	22.4	-	56.0	20.0	38.4	0.1	58.3	53.6	83.1	0.2	-0.3	-2.9	133.3
SRI LANKA	0	0.1	0	0.1	0	0.9	0	0.9	1.8	2.0	0	2.8	0	0.8	0	0.8	0.8	3.8	0	-	+0.4	5.0
TAIWAN	3.0	0.9	2.8	1.1	96.7	7.9	17.1	87.5	298.2	10.1	117.0	191.3	288.8	45.2	48.8	245.2	686.7	64.1	185.7	-5.0	-50.2	509.9
THAILAND	0	0.9	0.1	0.8	16.4	1.1	-	17.5	30.4	7.3	0.9	46.8	56.3	7.7	-	64.0	113.1	17.0	1.0	-0.1	-2.2	126.8
TOTAL A, A & O ABOVE	86.1	41.9	5.7	122.3	231.0	281.4	22.4	490.0	817.4	229.8	143.8	903.4	851.7	243.4	79.8	1015.3	1986.2	796.5	251.7	-13.8	-174.0	2343.2
HUNGARY	0	10.4	0.2	10.2	7.5	14.9	4.4	18.0	7.0	9.6	0.4	16.2	14.3	12.9	6.3	20.9	28.8	47.8	11.3	0	+3.4	68.7
POLAND	19.5	1.2	0.6	20.1	44.4	14.9	0	59.3	78.7	6.4	6.1	79.0	49.2	24.4	4.7	58.9	181.8	46.9	11.4	0	0	217.3

See text on page 182

SELECTED U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION BY COUNTRY OF ORIGIN THOUSAND POUNDS

ITEM & COUNTRY	1982												7 MONTHS	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1982	1981
CELLULOSIC YARN, MONOFIL & STRIPS														
CANADA	0	15	0	0	0	141	314						470	469
MEXICO	155	76	157	75	115	92	0						670	882
AUSTRIA	0	20	0	451	225	85	41						822	41
GERMANY, FED. REP. OF	502	275	218	250	81	157	54						1537	2220
NETHERLANDS	86	77	17	59	53	30	22						544	2283
SPAIN	40	81	46	47	47	0	0						261	223
JAPAN	20	42	36	1	36	2	21						158	133
ALL OTHER COUNTRIES ^a	58	2	28	133	22	27	17						287	449
TOTAL CELL. YARN	861	588	502	1016	579	534	469						4549	6700
CELLULOSIC STAPLE+TOW														
CANADA	155	167	191	129	170	90	54						956	3054
AUSTRIA	605	40	441	401	462	0	410						2359	2794
FRANCE	1	52	2	0	0	6	21						82	228
GERMANY, FED. REP. OF	42	44	43	0	0	65	0						194	85
SWEDEN	464	0	871	189	554	0	765						2843	1391
UNITED KINGDOM	117	2	108	69	119	0	76						491	1253
AUSTRALIA	153	0	0	0	0	0	0						153	0
JAPAN	149	24	134	118	76	127	227						855	681
ALL OTHER COUNTRIES ^b	0	80	1	44	29	38	44						236	171
TOTAL CELL. STAPLE	1686	409	1791	950	1410	326	1597						8169	9657
NONCELLULOSIC YARN, MONOFIL & STRIPS														
CANADA	295	156	101	444	456	595	365						2412	1815
COSTA RICA	117	27	0	0	27	0	7						178	0
MEXICO	0	1	2	1	10	41	66						121	117
BELGIUM	0	2	9	11	0	46	66						154	1
FRANCE	128	114	79	106	49	17	243						736	1147
GERMANY, FED. REP. OF	581	362	295	372	569	454	370						3003	2513
ITALY	24	2	175	1	10	18	16						246	426
UNITED KINGDOM	67	48	38	43	5	54	14						269	221
JAPAN	453	661	463	450	438	535	554						3554	4282
ALL OTHER COUNTRIES ^c	18	5	18	14	98	42	49						244	483
TOTAL N.C. YARN	1683	1378	1180	1442	1662	1802	1750						10897	11005
NONCELLULOSIC STAPLE+TOW														
CANADA	439	310	864	219	476	365	276						2949	4047
MEXICO	177	27	57	79		75	343						758	1876
BELGIUM	29	31	1	12	0	0	32						105	359
FRANCE	219	194	444	308	301	247	324						2047	2862
GERMANY, FED. REP. OF	730	752	975	725	861	341	420						4804	11737
IRELAND	0	39	39	77	39	116	77						387	95
ITALY	58	24	153	115	63	76	1236						1724	4166
NETHERLANDS	141	89	58	43	19	0	0						350	228
ROMANIA	50	106	29	219	5	29	0						438	267
UNITED KINGDOM	195	250	259	238	412	181	25						1560	3004
JAPAN	588	461	510	401	520	612	885						3977	3278
TAIWAN	616	194	436	583	760	2041	748						5378	4179
ALL OTHER COUNTRIES ^d	16	5	1	17	28	91	98						256	278
TOTAL N.C. STAPLE	3258	2481	3826	3036	3484	4174	4464						24723	36376

Other countries supplying 1982 poundages are:

a. Belgium 47, Brazil 82, France 66, Italy 8, Rep. of Korea 80 & Switzerland 4.

b. Finland 80, German Dem. Rep. 88, Mexico 39 & Netherlands 29.

c. Austria 10, Dominican Republic 4, India 11, Ireland 1, Israel 1, Rep. of

Korea 17, Netherlands 30, Norfolk Is. 36, Portugal 18, Romania 1, Sweden 33, Switzerland 61 & Taiwan 21.

d. Australia 29, Austria 12, Denmark 33, German Dem. Rep. 15, Hong Kong 1, Iceland 5, Israel 60, Rep. of Korea 31, Poland 15, Portugal 1 & Switzerland 54.

U.S. MAN-MADE FIBER PRODUCERS

ALBANY INTERNATIONAL - MONOFILAMENT PLANT •

EXECUTIVE OFFICE: 156 S. Main Street, Homer, NY 13077
 Fluoropolymers Homer, NY *Halar, Kynar, Teflon, Tefzel* (monofil)
 Nylon 6, 66, & 612 Homer (monofil)
 Polyester Homer (monofil regular & hydrolysis resistant)

ALLIED FIBERS AND PLASTICS COMPANY

EXECUTIVE OFFICE: 1411 Broadway, New York, NY 10018
 REGIONAL SALES: 400 N. Tustin Ave., Santa Ana, CA 92705
 1775 The Exchange, Suite 160, Atlanta, GA 30339
 2100 Fiber Park Dr., Dalton, GA 30720
 Friendship Center Office Park, Suite 108, Greensboro, NC 27409
 64 South Miller Rd., Akron, OH 44313
 Nylon 6 Columbia, SC & Hopewell, VA *ACE, Anso, Caprolan, Nypel* (yarn, monofil & staple)
 Polyester Moncure, NC *ACE* (yarn & monofil)

AMERICAN ENKA COMPANY

A PART OF AKZONA, INC.

EXECUTIVE OFFICE: Enka, NC 28728
 REGIONAL SALES: 1529 McFadden Ave., Santa Ana, CA 92705
 530 Fifth Ave., New York, NY 10036
 616 Green Valley Rd., Greensboro, NC 27404
 Suite 524, Uptain Bldg., Chattanooga, TN 37411
 Rayon Lowland, TN *Absorbil, Enkaire, Enkrome, Fiber 700, IT* (staple)
 Nylon 6 Enka, NC, Central, SC & Lowland *Ten, Enkalon, Enkalure, Enkasbeer, Lurelon, Multisbeer, Phase 7, Softalon*
 Polyester Central & Lowland *Encron, Encron 8, Enka, Golden Glow, Golden Touch, Silky Touch, Strialine, Ultra Touch* (yarn & staple)

NOTES & DEFINITIONS FOR THE DIRECTORY

This directory separates the listing into (1) the cellulosic plus the noncellulosic fibers (except olefin), (2) olefin fiber and (3) textile glass fiber.

• means that the company produces olefin fiber as well as other man-made fiber(s). For example, Ametek produces olefin fiber (page 187) as well as nylon, polyester & saran (see page 186).

Unless shown separately, the Head Sales Office address is the same as the Executive Office address.

* indicates that a new plant, or facilities for producing a new product at an existing plant, is in the planning or construction stage; such facilities are not expected to be operable before 1983 or later.

The localities shown are the plant sites.

Yarn means filament yarn. No attempt is made to identify high tenacity vs. textile tenacity, nor textured or BCF vs. regular, noncellulosic yarns.

Monofil means an extruded monofilament and may be either a round or a rectangular (ribbon) cross section.

Staple, tow and **fiberfill** are self-explanatory.

Captive means that most or all of the fiber produced is consumed by the company in a vertical operation, i.e., little or none of the fiber is for sale as such.

In the olefin entries:

Film includes **Slit**: tape produced by slitting an already attenuated wide sheet of olefin film; and **Split**: fibrillated slit film.

Not included in the survey is the slit "fiber" used for decorative or tying ribbons and such.

Rope includes braided & twisted rope as well as filler or core fiber.

Cordage is under 3/16" and includes tying and harvest (baler & binder) twine.

Carpet Backing is self-explanatory.

Industrial Goods means bags, bale wrap & protective covers, agricultural cloth, tarps & pool covers, etc.

GENERIC NAMES & TRADEMARKS

The generic fiber names used in this survey are mainly those promulgated by the U.S. Federal Trade Commission. Following are those generic names (in **bold type**) and a brief description of the fibers covered by each name.

The *italicized* words are trademarks. All other fiber names are generic and are shown in regular type.

CELLULOSIC (ARTIFICIAL) FIBERS

Acetate. Cellulose acetate. Cigarette filtration tow is excluded.

Triacetate. Cellulose acetate, wherein not less than 92% of the hydroxyl groups are acetylated.

Rayon. Regenerated cellulose, including substitutions for not more than 15% of the hydrogens of the hydroxyl groups. Includes high wet modulus fiber.

The viscose rayon yarns are identified as ind (industrial or high tenacity yarn) and reg (regular or textile yarn).

NONCELLULOSIC (SYNTHETIC) FIBERS

Acrylic. At least 85% acrylonitrile by weight.

Modacrylic. 35% to 84% acrylonitrile by weight, except when it qualifies as rubber.

Nylon. A long chain synthetic polyamide in which less than 85% of the amide linkages are attached directly to two aromatic rings. The types are identified as 6, 66, etc.

Aramid. A long chain synthetic polyamide in which at least 85% of the amide linkages are attached directly to two aromatic rings.

Olefin. At least 85% ethylene, propylene or other olefin units by weight, except amorphous (noncrystalline) polyolefins qualifying as rubber. **E** means Polyethylene and **P** means Polypropylene. Also see adjoining notes on olefin fiber.

Polyester. At least 85% by weight of an ester of a substituted aromatic carboxylic acid, including but not restricted to substituted terephthalate units, and parasubstituted hydroxybenzoate units.

Saran. At least 80% vinylidene chloride by weight.

Spandex. At least 85% of segmented polyurethane.

Vinyon. At least 85% vinyl chloride by weight.

Not covered in this survey are fibers which would fall under the FTC's generic designations of rubber, metallic and novoloid. Fibers falling under the FTC designations of anidex, azlon, nitril and vinal are not produced in the United States.

TEXTILE GLASS FIBER

A fiber produced in two primary forms, namely continuous strand and staple sliver. Continuous strand is a drawn fiber (i.e., from a textile type bushing), while staple sliver, which is produced in relatively small amounts, in current practice is a blown fiber. Textile glass fiber thus **does not** include the substantial poundages of blown glass wool and pack, e.g., mat for air & liquid filtration, acoustical & thermal insulation, battery mats & separators and underground pipe wrap (except reinforcing).

Yarn & Strand means continuous filament yarn and strand packaged for sale as such. Includes the yarn and strand used in the manufacture of nonwoven scrim for sale as such.

Roving means two or more ends of untwisted strand. Includes spun strand roving (a single, continuous strand looped back on itself to give the equivalent of two or more strands) and roving for making woven roving.

Mat means mat in any nonwoven form as made from a continuous filament, i.e., continuous strand mat (filaments bonded with a suitable binder to form a membrane) and chopped strand mat (1/2" to 3" strands deposited in a random manner and resin-bonded).

Chopped means chopped yarn, strand or roving (1/4" to 3/4" length).

Milled means hammer-milled yarn, strand or roving (1-32" to 1/4" length).

Staple Yarn & Sliver is a blown fiber, as noted, and means ribbons of generally parallel glass staple (3" to 15" random lengths) with or without a filament yarn reinforcement, with or without a binder, and slightly condensed to an approximately uniform cross section.

AMERICAN CYANAMID COMPANY, FIBERS DIVISION

EXECUTIVE OFFICE: One Cyanamid Plaza, Wayne, NJ 07470
 REGIONAL SALES: One Penn Plaza, New York, NY 10119
 P.O. Box 32787, Charlotte, NC 28232

Acrylic Milton, FL *Creslan* (staple & tow)

AMERICAN HOECHST CORPORATION

EXECUTIVE OFFICE: 202 206 North, Somerville, NJ 08876

HOECHST FIBERS INDUSTRIES DIVISION

EXECUTIVE OFFICE: 1515 Broadway, New York, NY 10036
 REGIONAL SALES: 5601-77 Center Drive, Suite 250, Charlotte, NC
 California Mart, 110 E. 9th St., Los Angeles, CA 90079 28210
 Polyester Spartanburg, SC *Trevira* (yarn & staple);
 Delaware City, DE (monofil)

AMETEK INC., SPECIAL FILAMENTS DIVISION

EXECUTIVE OFFICE: Box 339, Odenton, MD 21113

Nylon 6, 66, 612 & 11 Odenton, MD (monofil)

Polyester Odenton (monofil)

Saran Odenton (monofil)

AVTEX FIBERS INC.

EXECUTIVE OFFICE: 3 Lee Rd. (Chesterbrook), P.O. Box 880, Valley Forge, PA 19482

SALES OFFICE: 1185 Avenue of the Americas, New York, NY 10036

REGIONAL SALES: 1 Fairview Plaza, 5950 Fairview Rd., Suite 501,

Acetate Meadville, PA (yarn) Charlotte, NC 28210

Rayon Front Royal, VA *Avril*, *Avril II*, *Avril III*, *Avril Prima*,
Fibers 40 & 43 (ind yarn & staple)

Polyester Lewistown, PA *Arlin* (yarn)

Vinyon Meadville (staple)

BADISCHE CORPORATION

EXECUTIVE OFFICE: Williamsburg, VA 23185

REGIONAL SALES: 5505 East Carson St., Lakewood, CA 90713

500 Holiday Avenue, The Badische Building, Dalton, GA 30720

111 West 40th St., New York, NY 10018

Acrylic Williamsburg, VA *Zefran* (staple)

Nylon 6 Anderson, SC *Zefron* (yarn & staple)

Badische Corp. has carpet yarn spinning plants at Allendale, SC and
 Sylvania, GA.

BERKLEY & CO. INC.

EXECUTIVE OFFICE: Highways 9 & 71, Spirit Lake, IA 51360

Nylon 6 Spirit Lake, IA (monofil)

CAMAC CORPORATION

EXECUTIVE OFFICE: P.O. Box 1004, Bristol, VA 24201

Nylon 6 Bristol, VA *Camalon* (yarn)

CELANESE FIBERS COMPANY**A DIVISION OF CELANESE CORPORATION**

EXECUTIVE OFFICE: P.O. Box 32414, Charlotte, NC 28232

MARKETER: Celanese Fibers Marketing Company, 1211 Avenue of the
 Americas, New York, NY 10036

REGIONAL SALES: 110 E. 9th St., Room A 1229, Los Angeles, CA 90015

6650 Powers Ferry Rd. N.W., Atlanta, GA 30339

P.O. Box 32414, Charlotte, NC 28232

2950 W. Market St., Akron, OH 44313

Acetate Cumberland, MD (Amcelle), Rock Hill, SC (Celriver) &

Narrows, VA (Celco) *Celanese* (yarn, staple & tow)

Triacetate Cumberland & Rock Hill *Arnel* (yarn, staple & tow)

CORTLAND LINE COMPANY

EXECUTIVE OFFICE: 67 E. Court St., P.O. Box 1362, Cortland, NY

Nylon 6 Cortland, NY (monofil - captive) 13045

COURTAULDS NORTH AMERICA INC.

EXECUTIVE OFFICE: 104 West 40th St., New York, NY 10018

REGIONAL SALES: P.O. Box 2648, Mobile, AL 36652

Rayon Le Moyne, Mobile County, AL *Coloray*, *Fibro* (staple)

Nylon 6 Le Moyne *Courtaulds*, *Shareen*, *Shareen Plus*,
Shareen SSS, *Shareen UFD* (yarn & monofil)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)**TEXTILE FIBERS DEPARTMENT**

EXECUTIVE OFFICE: Wilmington, DE 19898

REGIONAL SALES: 5500 Union Pacific Ave., City of Commerce, CA
 2 N. La Salle St., Suite 1905, Chicago, IL 60602 90022

350 Fifth Ave., New York, NY 10118

6250 Fairview Rd., Charlotte, NC 28234

2770 W. Market St., Akron, OH 44313

50 North Broadway, Rumford, RI 02916

300 Franklin Bldg., Eastgate Center, Chattanooga, TN 37411

Acrylic Camden, SC & Waynesboro, VA *Orlon* (staple & tow)

Fluorocarbon Richmond, VA *Teflon* TFE & FEP fluorocarbon fiber
 (yarn, monofil, staple, tow & flock)

Nylon 66 Seaford, DE, Camden, SC, Chattanooga, TN and Martinsville,
 Richmond & Waynesboro, VA *Antron*, *Cantrec*, *Cordura*,
Du Pont, *Hyten* (yarn, monofil, staple & tow)

Aramid Richmond *Kevlar* (yarn), *Nomex* (yarn, staple & tow)

Polyester Kinston & Wilmington, NC, Camden & Charleston, SC and
 Chattanooga & Old Hickory, TN *Dacron*, *Hollofil* (yarn,
 staple, tow & fiberfill), *Reemay* (spunbonded),
Sontara (spunlaced)

Spandex Waynesboro *Lycra* (fused multifil or coalesced monofil)

POLYMER PRODUCTS DEPARTMENT

EXECUTIVE OFFICE: see listing above

Nylon 6, 66, 612 & Polyester Parkersburg, WV *Dacron*, *Dymetrol*,
Tynex, *Vylor* (monofil of 50 denier & coarser)

EASTMAN KODAK COMPANY**CAROLINA EASTMAN COMPANY**

EXECUTIVE OFFICE: Kingsport, TN 37662

Polyester Columbia, SC *Kodel* (yarn & staple)

TENNESSEE EASTMAN COMPANY

EXECUTIVE OFFICE: Kingsport, TN 37662

MARKETER: Eastman Chemical Products, Inc., Fibers Division,
 Kingsport, TN 37662

REGIONAL SALES: California Mart, 110 E. 9th St., Los Angeles, CA 90079
 1133 Avenue of the Americas, New York, NY 10036

Acetate Kingsport, TN *Chromspun*, *Estron* (yarn)

Modacrylic Kingsport *Verel* (staple)

Polyester Kingsport *Kodel* (yarn & staple)

FIBER INDUSTRIES, INC. (subsidiary of Celanese Corporation)

EXECUTIVE OFFICE: P.O. Box 10038, Charlotte, NC 28237

MARKETER: Celanese Fibers Marketing Company - see listing adjacent

Polyester Fayetteville, Salisbury & Shelby, NC and Darlington &
 Greenville, SC *Angeleite*, *ESP*, *Fortrel*, *Fortrel 7*, *Loftguard*,
PolarGuard, *Serene*, *Superba* (yarn, staple, tow & fiberfill)

FIRESTONE FIBERS & TEXTILES COMPANY**DIVISION OF FIRESTONE TIRE & RUBBER COMPANY**

EXECUTIVE OFFICE: P.O. Box 1278, Gastonia, NC 28052

Polyester Hopewell, VA (yarn)

GLOBE MANUFACTURING CO.

EXECUTIVE OFFICE: 456 Bedford St., Fall River, MA 02720

Spandex Fall River, MA & Gastonia, NC *Cleerspan*, *DC 100*, *DC 700*,
Glospan (fused multifil)

THE GOODYEAR TIRE & RUBBER COMPANY,**CHEMICAL DIVISION**

EXECUTIVE OFFICE: Akron, OH 44316

Polyester Scottsboro, AL & Point Pleasant, WV (yarn - captive)

GUILFORD MILLS, GAINESVILLE DIVISION

EXECUTIVE OFFICE: 4925 West Market St., Greensboro, NC 27402

PLANT OFFICE: 455 Osborne St., S.E., Gainesville, GA 30501

Nylon 6 Gainesville, GA (yarn & monofil - captive)

HANOVER MILLS, INCORPORATED

(subsidiary of Falk Fibers & Fabrics Inc.)

EXECUTIVE OFFICE: 2120 Pinecroft Road, Greensboro, NC 27407

REGIONAL SALES: 1450 Broadway, New York, NY 10018

Nylon 6 Yanceyville, NC *Hanover* (yarn & monofil)

JOHNSON FILAMENTS, INC. (subsidiary of JWI Ltd.)

EXECUTIVE OFFICE: Industrial Ave., Williston, VT 95495

Nylon 6-66 Williston, VT (monofil)

Polyester Williston (monofil)

KAYSER-ROTH CORPORATION, YARN PROCESSING DIVISION

EXECUTIVE OFFICE: 2303 W. Meadowview Rd., Greensboro, NC

Nylon 66 Creedmoor, NC (yarn - captive) 27407

MONOFILAMENTS, INC.

EXECUTIVE OFFICE: 1401 Hopeman Pkwy., Waynesboro, VA 22980

Nylon 6-66 Waynesboro, VA (monofil)

Polycarbonate Waynesboro (monofil)

Polyester Waynesboro (monofil)

MEYERS FIBERS, INC. see Tolaram Fibers, Inc.**MONSANTO COMPANY**

EXECUTIVE OFFICE: 800 N. Lindbergh Blvd., St. Louis, MO 63166

MONSANTO TEXTILES COMPANY

REGIONAL SALES: 110 E. 9th St., Los Angeles, CA 90015

1401 Dove St., Newport Beach, CA 92663

320 Interstate North Pkwy., Atlanta, GA 30339

Merchandise Mart, 222 North Bank Dr., Chicago, IL 60654

1114 Avenue of the Americas, New York, NY 10036

6230 Fairview Rd., Charlotte, NC 28210

260 Springside Dr., P.O. Box 5444, Akron, OH 44313

Acrylic Decatur, AL *Acrlan, Bi-Lofi, Fi Lana, Pa-Qel, Remember, So-Lara* (staple & tow)Modacrylic Decatur *SEF* (staple & tow)Nylon 66 Pensacola, FL & Greenwood, SC *Ultrun, Ultrun Z* (yarn, monofil & staple), *Cerex* (spunbonded)Polyester Decatur *Blue C* (staple & tow)**MONSANTO POLYMERS AND RESINS COMPANY**

SALES OFFICE: 800 N. Lindbergh Blvd., St. Louis, MO 63166

Nylon 66 Pensacola *AstroTurf* (recreational & landscaping surfaces)**NORTH AMERICAN RAYON CORPORATION**

EXECUTIVE OFFICE: 1011 Schaub Drive, Raleigh, NC 27606

REGIONAL SALES: 500 Fifth Ave., New York, NY 10110

Rayon Elizabethton, TN (ind & reg yarn and tow)

OMEGA YARNS, INC. (subsidiary of Tietex Corp.)

EXECUTIVE OFFICE: Blackstock Rd., P.O. Box 6218, Spartanburg, SC

SALES OFFICE: 183 Madison Ave., New York, NY 10017 29304

Polyester Asheboro, NC (yarn)

SHAKESPEARE COMPANY, MONOFILAMENT DIVISION

SALES OFFICE: 1801 Main St., P.O. Box 246, Columbia, SC 29202

Nylon 6-66 Columbia, SC *Sooflex, Superflex, S-3, Wonderbread* (monofil)Polyester Columbia *Shakespeare Wonderbread* (monofil)**STAR FIBERS, INC.**

EXECUTIVE OFFICE: 136 Fuller Rd., Albany, NY 12205

REGIONAL SALES: Edgefield, SC 29824

Nylon 6 Edgefield, SC *Starbrite* (staple)**TOLARAM FIBERS, INC.** (formerly Meyers Fibers, Inc.)

EXECUTIVE OFFICE: 4 Park Avenue, New York, NY

Polyester Ansonville, NC (yarn)

UNIVERSAL POLYMER PRODUCTS CORPORATION

(subsidiary of Falk Fibers & Fabrics Inc.)

EXECUTIVE OFFICE: see Hanover Mills on page 186

REGIONAL SALES: 1450 Broadway, New York, NY 10018

Polyester Fuquay-Varina, NC (yarn & monofil)

WELLMAN, INC., MAN-MADE FIBER DIVISION

EXECUTIVE OFFICE: 75 Federal St., Boston, MA 02110

REGIONAL SALES: 1200 East Morehead St., Charlotte, NC 28204

Nylon 6 Johnsonville, SC *Wellon* (staple & monofil)Nylon 66 Johnsonville *Wellon, Wellstrand* (staple, tow, tops & monofil)Polyester Johnsonville *Fillwell, Wellene, Wellstrand* (staple, tow & monofil)**OLEFIN FIBER****ACS INDUSTRIES, INC.**

EXECUTIVE OFFICE: 71 Villanova St., Woonsocket, RI 02895

PLANT: Woonsocket, RI (P yarn & staple)

ALBANY INTERNATIONAL - MONOFILAMENT PLANT

EXECUTIVE OFFICE: see listing on page 185

PLANT: Homer, NY (P monofil)

AMERICAN MANUFACTURING COMPANY

EXECUTIVE OFFICE: 206 Willow Ave., Honesdale, PA 18431

REGIONAL SALES: 20810 Fordyce Ave., Carson, CA 90749

5854 Hollis St., Emeryville, CA 94608

1555 Marshall St., P.O. Box 52134, Jacksonville, FL 32201

6002 North 51st St., Tampa, FL 33610

P.O. Box 3, Central of Ga. RR Warehouse 5, Savannah, GA 31402

500 Country Club Dr., Bensenville, IL 60106

1523 St. Ferdinand St., New Orleans, LA 70117

139 California St., Newton, MA 02158

1715 South 11th St., St. Louis, MO 63104

1313 Old River Rd., Cleveland, OH 44113

1501 Preble Ave., Pittsburgh, PA 15233

2609 Leeland St., Houston, TX 77003

2507 S. 300 West St., Salt Lake City, UT 84115

5050 First Avenue South, Seattle, WA 98134

HONESDALE ROPE DIVISION

PLANT: Honesdale, PA (E & P monofil & film)

LAFAYETTE ROPE DIVISIONPLANT: Lafayette, LA *Amco, American, Bondine, Floterope* (E & P monofil)**AMETEK INC., SPECIAL FILAMENTS DIVISION**

EXECUTIVE OFFICE: see listing on page 186

PLANT: Odenton, MD (E & P monofil)

AMOCO FABRICS COMPANY,**PATCHOGUE PLYMOUTH DIVISION**

EXECUTIVE OFFICE: 550 Interstate North Pkwy., Atlanta, GA 30339

REGIONAL SALES: 15377 Del Prado, Hacienda Heights, CA 91745

P.O. Box 911, Dalton, GA 30720

P.O. Box 3545, 604 Sheridan Avenue, Dalton, GA 30720

700 West 1st Street, Lowell, NC 28098

PLANTS: Andalusia & Roanoke, AL; Bainbridge, Hazlehurst & Nashville, GA; Lowell, NC and Afton, VA (P yarn, monofil, film & staple)

The company produces *Needl Bac, Poly Bac & Poly Bac FLW* primary carpet backing; *Action Bac* secondary carpet backing; *Propex* industrial goods; and *Marquies Lana, Patton & Patton Plus* yarn at these locations.**ARLIN MFG. CO., INC.**

EXECUTIVE OFFICE: 239 Industrial Ave., Lowell, MA 01853

PLANT: Lowell, MA (P film)

ARMSTRONG WORLD INDUSTRIES, INC.

EXECUTIVE OFFICE: Lancaster, PA 17604

PLANT: Charlotte, NC (P film - captive)

The company weaves carpet backing here.

BEMIS COMPANY, INC.

EXECUTIVE OFFICE: 800 Northstar Center, Minneapolis, MN 55402

REGIONAL SALES: 2400 S. Second St., St. Louis, MO 63104

90 Park Ave., New York, NY 10016

PLANT: St. Louis, MO (P film)

BERKLEY & CO. INC.

EXECUTIVE OFFICE: see listing on page 186

PLANT: Spirit Lake, IA (E & P monofil - captive)

BLUE MOUNTAIN EXTRUSIONS

EXECUTIVE OFFICE: P.O. Box 100, Anniston, AL 36202

PLANT: Anniston, AL *Gold Medal, Poly Autotwine, Poly Macramé,**Polylasting, TY EZ Polytape, Tylon, Tytite*

(E & P film cordage and industrial yarn & tape)

BRIDON CORDAGE INC.

EXECUTIVE OFFICE: 909 16th St., Albert Lea, MN 56007

PLANT: Albert Lea, MN (P film cordage)

CAMAC CORPORATION

EXECUTIVE OFFICE: see listing on page 186

PLANT: Bristol, VA (P yarn)

CELANESE FIBERS COMPANY - see Mirafi, Inc.

CHASE BAG COMPANY

EXECUTIVE OFFICE: 2 Greenwich Plaza, Greenwich, CT 06830
PLANTS: Orange, CA & New Orleans, LA (P film industrial goods)

CHEVRON FIBERS, INC. - see Polyloom Corporation of America

THE COLUMBIAN GROUP

DIVISION OF THE COLUMBIAN ROPE COMPANY

EXECUTIVE OFFICE: 1 Columbian Drive, Auburn, NY 13021
REGIONAL SALES: 90 Charter Oak Ave., San Francisco, CA 94124

600 St. George Ave., Jefferson, LA 70181

1003 Medina St., Houston, TX 77012

PLANTS: Jefferson, LA & Auburn, NY *Manipro*, *Poly K*, *Poly Twine*,
Polypro 6, *Radiant Twine* (E & P monofil & film)

CONCORDE FIBERS, INC.

EXECUTIVE OFFICE: P.O. Box 200, Highway 45, Jamestown, SC 29453

PLANT: Jamestown, SC (P yarn)

CROWE ROPE COMPANY

EXECUTIVE OFFICE: Warren, ME 04864

PLANT: Warren, ME *Crowelon* (P monofil rope)

CROWN ZELLERBACH CORPORATION,

NONWOVEN FABRICS DIVISION

EXECUTIVE OFFICE: 1 Bush St., San Francisco, CA 94119

SALES HEADQUARTERS: 3720 Grant St., Washougal, WA 98671

PLANT: Washougal, WA *Celestra*, *Fibretext* (P spunbonded)

E. I. DU PONT DE NEMOURS & COMPANY (INC.)

TEXTILE FIBERS DEPARTMENT

EXECUTIVE OFFICE: see listing on page 186

PLANTS: Old Hickory, TN & Richmond, VA *Tygar* (P spunbonded),
Tyvek (E spunbonded)

ELIZABETH WEBBING MILLS CO., INC.

EXECUTIVE OFFICE: 521 Roosevelt Ave., Central Falls, RI 02862

PLANT: Central Falls, RI (P film)

ENSIGN-BICKFORD INDUSTRIES, INC., FILM FIBERS DIVISION

EXECUTIVE OFFICE: 660 Hopmeadow St., Simsbury, CT 06070

PLANT: Simsbury, CT (P film)

EXXON CHEMICAL AMERICAS,

INDUSTRIAL TEXTILES DIVISION

DIVISION HEADQUARTERS: Hwy. 78 West, Summerville, SC 29483

MARKETING OFFICE: 380 Interstate North, Suite 375, Atlanta, GA

PLANTS: Kingman, KS (P monofil & film cordage) & 30339
Summerville, SC (P monofil & film fabrics)

The company also weaves *Baxon* & *Fuzzbak* carpet backing and packaging fabrics at Summerville, SC.

FNT INDUSTRIES, INC.

EXECUTIVE OFFICE: 927 First Street, Menominee, MI 49858

PLANT: Menominee, MI (E monofil)

FIBERS & FABRICS OF GEORGIA, INC.

(subsidiary of Georgia Synthetics, Inc.)

EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635

PLANT: Elberton, GA (E & P yarn, monofil & multifil)

The company also weaves carpet backing here.

FIBERS SOUTH, INC.

EXECUTIVE OFFICES: P.O. Box 198, Trussville, AL 35173

PLANT: Trussville, AL (E & P film & monofil)

FIBRON CORPORATION OF TENNESSEE (subsidiary of Harbour

EXECUTIVE OFFICE: Clayton, MO Group Ltd.)

PLANT: Chattanooga, TN *Fibri Cord*, *Fibri Knit*, *Fibrilaun*, *Fibrilon* (P film)

FILAMENT FIBER TECHNOLOGY INCORPORATED

EXECUTIVE OFFICE: 999 Airport Road, Lakewood, NJ 08701

PLANT: Lakewood, NJ (P yarn)

GENERAL FIBERS & FABRICS, INC.

EXECUTIVE OFFICE: Orchard Hill Rd., LaGrange Industrial Park,

PLANT: LaGrange, GA (P film) LaGrange, GA 30240

The company also weaves *Supertuft* carpet backing as well as bagging and woven polypropylene fabrics here.

GEORGIA SYNTHETICS, INC.

EXECUTIVE OFFICE: P.O. Box 962, Elberton, GA 30635

PLANT: Elberton, GA (E & P yarn, monofil & multifil)

Also note **FIBERS & FABRICS OF GEORGIA, INC.**, adjacent.

GLADDING CORP., CORDAGE DIVISION

EXECUTIVE OFFICE: Gladding St., South Otselec, NY 13155

PLANT: South Otselec, NY (P monofil)

HERCULES INCORPORATED, FIBERS MARKETING DIVISION

EXECUTIVE OFFICE: 910 Market St., Wilmington, DE 19899

MARKETING HEADQUARTERS: 3169 Holcomb Bridge Rd., Suite 301,

REGIONAL SALES: Norcross, GA 30071

Mack Center II, From Rd., Ground Floor, Paramus, NJ 07652

PLANT: Oxford, GA *Herculon* (P yarn & staple)

THE HOOVEN & ALLISON COMPANY

EXECUTIVE OFFICE: 677 Cincinnati Ave., Xenia, OH 45385

PLANT: Xenia, OH (P film cordage)

JACKSON ROPE COMPANY,

DIVISION OF TUBBS CORDAGE COMPANY

EXECUTIVE OFFICE: see listing under Tubbs Cordage opposite

PLANT: Austin, TX (P monofil & film)

KELLER INDUSTRIES, INC.

EXECUTIVE OFFICE: 18000 State Rd. #9, North Miami, FL 33162

PLANT: Swainsboro, GA (P monofil - captive)

The company weaves outdoor furniture webs here.

KIMBERLY-CLARK CORPORATION

EXECUTIVE OFFICE: 1400 Holcomb Bridge Road, Roswell, GA 30076

PLANTS: Corinth, MS, Balfour, NC & Neenah, WI *Accord*, *Duraguard*,

Evolution (P spunbonded), *Cyclean* (P spunbonded/melt-

blown laminate), *Evolution II*, *Safeguard CPF* (P spunbonded

meltblown & P meltblown)

LAMBETH CORPORATION

EXECUTIVE OFFICE: 627 Tarklin Hill Rd., New Bedford, MA 02745

PLANT: New Bedford, MA *Lambeth* (E & P monofil)

LAWRENCE HOSE COMPANY (a Consolidated Foods Company)

SALES OFFICE: P.O. Box 1838, Burlington, NC 27215

PLANT: Burlington, NC (E monofil - captive)

LORETEx, DIVISION OF OIVIND LORENTZEN, INC.

EXECUTIVE OFFICE: 522 Fifth Ave., New York, NY 10036

REGIONAL SALES: Northeastern Industrial Park, Guilderland Center,

PLANT: Guilderland Center, NY (E film - captive) NY 12505

MIRAFI INC. (subsidiary of Dominion Textiles)

(formerly Celanese Fibers Company)

EXECUTIVE OFFICE: P.O. Box 240967, Charlotte, NC 28224

PLANT: Moultrie, GA (P film - captive)

NSI, INC.

ADMINISTRATIVE OFFICE: Box 658, Soperton, GA 30457

PLANT: Soperton, GA (P film - captive)

The company weaves carpet backing here.

THE OSTERNECK COMPANY

EXECUTIVE OFFICE: P.O. Box 849, Lumberton, NC 28358

PLANT: Lumberton, NC (P film)

The company weaves carpet backing and industrial goods here.

PHILLIPS FIBERS CORPORATION

(subsidiary of Phillips Petroleum Company)

EXECUTIVE OFFICE: P.O. Box 66, Interstate 85, Greenville, SC 29602

REGIONAL SALES: 630 Fifth Ave., New York, NY 10020

PLANTS: Rocky Mount, NC & Spartanburg, SC *Marvess*

(P yarn, staple & tow)

The company also manufactures *Duon*, *Petromat*, *Rufon* and *Supac* nonwoven fabrics at Seneca, SC.

POLYLOOM CORP OF AMERICA (formerly Chevron Fibers, Inc.)

EXECUTIVE OFFICE: 1615 N. Broadway, P.O. Box 289, Dayton, TN

PLANT: Dayton, TN *Polyloom* (P split film) 37321

SARLON INDUSTRIES, INC.

EXECUTIVE OFFICE: 775 N.W. 71st Street, Miami, FL 33150

PLANT: Miami, FL (P monofil & film)

SHUFORD MILLS, INC.

EXECUTIVE OFFICE: Highland Ave. & 15th St., N.E., Hickory, NC

PLANT: Hickory, NC (P film cordage and twine) 28601

SUNSHINE CORDAGE CORPORATION

EXECUTIVE OFFICE: 7250 N.W. 41st St., Miami, FL 33166
 MARKETER: Poncar Plastic Corp., 7250 N.W. 41st St., Miami, FL 33166
 PLANT: Miami, FL *Cala-Line, Oletex, Poncar, Sunshine, Sunylon, Sunypool* (E & P monofil)

SYNTHETIC INDUSTRIES

EXECUTIVE OFFICE: 309 Lafayette Rd., Chickamauga, GA 30707
 PLANTS: Chickamauga, GA & Houston, TX (P film - captive)
 The company weaves slit film carpet backing and industrial fabrics.

SYNTHETIC INDUSTRIES (TEXAS), INC.

EXECUTIVE OFFICE: P.O. Box 40504, Houston, TX 77040
 PLANT: Houston, TX (E & P film)

TUBBS CORDAGE COMPANY

EXECUTIVE OFFICE: 660 Bryant St., P.O. Box 7986, San Francisco, CA
 REGIONAL SALES: P.O. Box 709, Orange, CA 92666 94120
 2045 No. 15th Ave., Melrose Park, IL 60160
 5501 Jefferson Highway, Harahan, Jefferson Parish, LA 70123
 1355 West Front St., Plainfield, NJ 07063
 1311 Palmer St., Houston, TX 77003
 415 South Fidalgo St., Seattle, WA 98108

PLANT: Orange, CA *Loktite* (P monofil & film)

The company's Yarn Division operates carpet yarn spinning facilities at Dos Palos and Porterville, CA.

Also see listing for **JACKSON ROPE COMPANY** opposite.

TWINE PRODUCTS CORPORATION

EXECUTIVE OFFICE: 201 Dufossat, P.O. Box 15285, New Orleans, LA
 PLANT: New Orleans, LA (P film) 70175

UNITED STATES ROPE COMPANY

EXECUTIVE OFFICE: 711 Hamilton Ave., Menlo Park, CA 94025
 PLANT: Menlo Park, CA (P monofil)

WALL INDUSTRIES, INC.

EXECUTIVE OFFICE: P.O. Box G, Beverly, NJ 08010
 PLANT: Elkin, NC (E & P monofil rope & cordage)

WALTRICH PLASTIC CORPORATION

EXECUTIVE OFFICE: P.O. Box 19, Route 522, Tennent, NJ 07763
 PLANT: Tennent, NJ (P monofil)

WAYN-TEX INC.

EXECUTIVE OFFICE: 901 Delphine Ave., Waynesboro, VA 22980
 REGIONAL SALES: 14014 Alondra Blvd., Santa Fe Springs, CA 90670
 1805 S. Hamilton St., Dalton, GA 30720
 PLANT: Waynesboro, VA *Beamette, Waynfil*
 (E & P yarn & monofil & P film)

The company also weaves *Wayntuf* primary carpet backing, *Waynlok* secondary carpet backing and *Waynlon* industrial fabrics here.

WELLINGTON PURITAN MILLS (MONTAIR DIV.)

EXECUTIVE OFFICE: Nelson St., Pilot Mountain, NC 27041
 PLANT: Pilot Mountain, NC *Pur-Ty, Welltite* (E & P monofil & film)

WELLINGTON SYNTHETIC FIBRES, INC.

EXECUTIVE OFFICE: 52 Courtland St., Paterson, NJ 07503
 PLANTS: Leesville & Summerville, SC (P yarn & monofil)

The company also weaves outdoor furniture webs at Leesville.

The following companies are also producing a variety of textile products from olefin: **Conwed Corp.** *Conwed Plastic Netting* (P embossed film for netting); **E.I. du Pont de Nemours & Company (Inc.)** (E & P embossed film for netting); **Hercules Incorporated, Polymers Division** *Delnet* (E embossed film for netting); **Nalle Inc.** (P embossed film for netting); **Riegel Products Corporation** *Polyweb* (P meltblown); and **The 3M Company** (P spunbonded).

TEXTILE GLASS FIBER**CFRTAINTED CORPORATION****FIBER GLASS REINFORCEMENTS DIVISION**

EXECUTIVE OFFICE: P.O. Box 860, Valley Forge, PA 19482
 REGIONAL SALES: P.O. Box 736, Bessemer, AL 35023

205 Main Street, Suite F, Pleasanton, CA 94566
 1801 E. Parkcourt St., Bldg. E, Suite 103, Santa Ana, CA 92701
 1300 S. Harbor City Blvd., Suite 11, Melbourne, FL 32901
 17924 S. Halsted Street, Homewood, IL 60430
 25 W. Courtland St., Bel Air, MD 21014
 1450 Souter St., Troy, MI 48084
 1540 S. Holland-Sylvania Road, Maumee, OH 43537
 2121 S. Columbia, Suite 308, Tulsa, OK 74114
 Rte. 11, Patch Dr., Spartanburg, SC 29302
 1212 8th St., Wichita Falls, TX 73601
 2301 N.E. 91st St., Vancouver, WA 98665

PLANT: Wichita Falls, TX (roving, woven roving, mat, chopped strand & combination product)

F.G.I. FIBERS, INC.

EXECUTIVE OFFICE: Homestead Place, Amsterdam, NY 12010
 PLANT: Amsterdam, NY (roving & chopped)

LUNDY TECHNICAL CENTER

EXECUTIVE OFFICE: Pompano Beach, FL 33064
 PLANT: Pompano Beach, FL *RoMHOglas* (metallized glass fiber roving & strand and nonwoven metallized glass mat)

MANVILLE CORPORATION, FILTRATION & MINERALS DIVISION

EXECUTIVE OFFICE: P.O. Box 5108, Ken-Caryl Ranch, Denver, CO
 REGIONAL SALES: 7500 Dutch Rd., Waterville, OH 43566 80217
 PLANTS: Waterville, OH & Etowah, TN *Chop Pak* (mat, chopped strand and staple yarn & sliver)

NICOFIBERS INC.

EXECUTIVE OFFICE: Ironpoint Rd., Shawnee, OH 43782
 PLANT: Shawnee, OH *Conformat, Consumat, Surmat* (mat)

OWENS-CORNING FIBERGLAS CORPORATION

EXECUTIVE OFFICE: Fiberglass Tower, Toledo, OH 43659
 REGIONAL SALES: 5933 Telegraph Road, Los Angeles, CA 90040
 477 Forbes Blvd., S. San Francisco, CA 94080
 4950 W. Kennedy Blvd., Suite 301, Tampa, FL 33609
 1155 Hammond Dr., Bldg. C, Suite 3210, Atlanta, GA 30328
 2215 Sanders Rd., Northbrook, IL 60062
 10170 Linn Station Rd., Suite 320, Louisville, KY 40223
 60 Williams St., Wellesley Hills, MA 02181
 1055 36th St. S.E., Grand Rapids, MI 49508
 2075 W. Big Beaver Rd., Troy, MI 48084
 700 White Plains Rd., Scarsdale, NY 10583
 2200 Victory Pkwy., Cincinnati, OH 45206
 5700 Pearl Rd., Suite 104, Cleveland, OH 44129
 997 Old Eagle School Rd., Wayne, PA 19087
 12830 Hillcrest, Suite 216, Dallas, TX 75230
 12301 N.E. 10th Place, Bellevue, WA 98005
 PLANTS: Huntington, PA, Ashton, RI, Aiken & Anderson, SC, Jackson, TN & Amarillo, TX *Activa, Araton, Beta, Bi-Ply, Fiberglass, S Glass, S-2 Glass* (yarn, roving, spun roving, woven roving, mat, chopped, milled and staple yarn & sliver)

PPG INDUSTRIES, INC., FIBER GLASS DIVISION

EXECUTIVE OFFICE: One Gateway Center, Pittsburgh, PA 15222
 REGIONAL SALES: 1700 E. Dyer Rd., Suite 200, Santa Ana, CA 92705
 30 Tower Lane, Avon Park South, Avon, CT 06001
 880 Johnson Ferry Rd., NE, Suite 220, Atlanta, GA 30542
 6420 W. 127th Street, Suite 216, Palos Heights, IL 60463
 2155 West Big Beaver Rd., P.O. Box 3510, Troy, MI 48084
 30 East 42nd St., New York, NY 10017
 1601 East Garrison Blvd., Suite 210, Gastonia, NC 28052
 767 East Turkeyfoot Lake Rd., Akron, OH 44319
 4015 Executive Park Dr., Suite 100, Cincinnati, OH 45241
 501 Office Center Dr., Ft. Washington, PA 19034
 5629 FM 1960 West, Suite 100, Houston TX 77069
 PLANTS: Lexington & Shelby, NC *Azdel* (yarn, roving, mat, chopped strand, woven roving & rubber reinforcements)

REICHHOLD CHEMICALS, INC.

EXECUTIVE OFFICE: 525 N. Broadway, White Plains, NY 10603
 REGIONAL SALES: 107 S. Motor Ave., Azusa, CA 91702
 120 S. Linden Ave., S. San Francisco, CA 94080
 George C. Brandt, Inc. (Agent), 6500 Stapleton Dr. So., Denver, CO
 1700 Drew St., Suite 6, Clearwater, FL 33515 80216
 2250 N. Druid Hills Rd., Suite 148, Atlanta, GA 30329
 814 Commerce Drive, Oak Brook, IL 60521
 P.O. Box 7212, Louisville, KY 40207
 P.O. Box A, Andover, MA 01810
 601-707 Woodward Heights Blvd., Detroit, MI 48220
 George C. Brandt, Inc. (Agent), 2975 Long Lake Rd., St. Paul, MN 55113
 975 North St., Suite 108, Jackson, MS 39202
 726 Rockefeller St., Elizabeth, NJ 07202
 640 Krey Rd., Pittsford, NY 14534
 P.O. Box 11051, Charlotte, NC 29209
 11750 Chesterdale Rd., Cincinnati, OH 45246
 20800 Center Ridge Rd., Cleveland, OH 44116
 5310 E. 31st St., Tulsa, OK 74135
 8383 Stemmons Freeway, Dallas, TX 75247
 8955 Katy Freeway, Suite 102, Houston, TX 77018
 2340 Taylor Way, Tacoma, WA 98401

GLASS FIBERS DIVISION

PLANTS: Irwindale, CA *Chemglass* (roving, chopped & milled)
 Bremen, OH *Modiglass* (mat)
 Nashville, TN (roving, woven roving, mat, chopped & milled)
 The division also weaves roving and/or manufactures reinforcement mats
 at Nashville, TN, as well as at Huntington Beach, CA.

**LOCATION OF U.S. MAN-MADE FIBER
PRODUCT-PRODUCING PLANTS**

STATES & AREA	CELLU- LOSIC	NONCELLULOSIC						TEX- TILE GLASS	GRAND TOTAL
		ACRYL	NYLON	OLE- FIN	POLY- ESTER	OTHER	TOTAL		
<u>NEW ENGLAND</u>									
CONNECTICUT				1			1		1
MAINE				1			1		1
MASSACHUSETTS				2		1	3		3
RHODE ISLAND				2			2	1	3
VERMONT			1		1		2		2
TOTAL N.E.			1	6	1	1	9	1	10
<u>MID-ATLANTIC</u>									
DELAWARE			1		1		2		2
MARYLAND	1		1	1	1	1	4		5
NEW JERSEY				2			2		2
NEW YORK			2	4	1	1	8	1	9
PENNSYLVANIA	1			1	1	1	3	1	5
TOTAL MID-ATL.	2		4	8	4	3	19	2	23
<u>PIEDMONT</u>									
N. CAROLINA			3	10	9	1	23	2	25
S. CAROLINA	1	1	8	5	9		23	2	26
VIRGINIA	2	2	6	4	2	3	17		19
WEST VIRGINIA			1		2		3		3
TOTAL Piedmont	3	3	18	19	22	4	66	4	73
<u>SOUTH</u>									
ALABAMA	1	1	1	4	2		8		9
FLORIDA		1	1	2			4	1	5
GEORGIA			1	11			12		12
LOUISIANA				4			4		4
MISSISSIPPI				1			1		1
TENNESSEE	3	1	2	3	4		10	3	16
TEXAS				3			3	2	5
TOTAL SOUTH	4	3	5	28	6		42	6	52
<u>MID-WEST & WEST</u>									
CALIFORNIA				3			3	1	4
IOWA			1	1			2		2
KANSAS				1			1		1
MICHIGAN				1			1		1
MINNESOTA				1			1		1
MISSOURI				1			1		1
OHIO				1			1	5	4
WASHINGTON				1			1		1
WISCONSIN				1			1		1
TOTAL WEST			1	11			12	4	16
TOTAL # OF PLANTS	9	6	29	72	33	8	148	17	174
TOTAL # OF STATES	6	5	13	27	11	6	30	10	30

Cellulosic includes rayon, acetate & triacetate; Acryl means acrylic & modacrylic; Nylon includes aramid.

Other noncellulosic includes 1 fluorocarbon, 1 fluoropolymer, 1 polycarbonate, 1 saran, 3 spandex and 1 vinyon.

CAPTIVE FIBER PRODUCERS

Several olefin and nylon producers consume at least some, if not all, of their fiber output in products they manufacture such as rope, narrow fabric and industrial goods. In other words, the fiber production is a "captive" operation and is labeled as such in the directory. Note the definition on page 185.

These captive fiber producers are listed in the directory, and their output recorded in all *Organon* data surveys, because their production is a part of the total man-made fiber supply.

JUNE *Organon* CORRECTIONS

India. On page 119, the acrylic trade name for the company J.K. Synthetics Limited should be *Jayacrylic* and not *Jekrilon*.

Poland. On page 124, the rayon listing for the producer Zakłady Włókien Chemicznych "Chemitex Anilana" should be deleted. Also, the rayon entry for Zakłady Włókien Chemicznych "Chemitex-Wiskord" should be for reg yarn only, not ind & reg yarn.

Turkey. On page 126, the rayon entry for Gemlik Suni Ipek Ve Viskoz Mamulleri Sanayii Müessesesi should list only staple, not reg yarn & staple. The polyester plants of both M.N. Sabuncu and Sancak Tül Sanayii Ltd., STI., are idle. Under Olefin Fiber, both Degirmencilik A.S. and Senipek Tekstil Sanayii Ve Ticaret A.S. should be delisted. On the other hand, four new

olefin producers should be added: Bezci Elyaf San. A.S., Istanbul; Dinarsu Elyaf San. A.S., Cerkezkoz, Tekirdag (P staple); Halicioglu Elyaf San. A.S., Haskoy, Istanbul (P staple); and Sesas Elyaf San. A.S., Istanbul.

U.S. MAN-MADE FIBER IMPORTS FOR CONSUMPTION

THOUSAND POUNDS

ITEM		COMMODITY NUMBER AS OF 1/1/78	1982												7 MONTHS	
			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1982	1981
CELLULOSIC FIBERS																
YARN - SINGLES																
TEXTURED		310.0106 & 0206	5	0	28	35	6	27	0						101	266
OTHER		310.0130 & 0230 ^a	856	586	474	981	573	505	465						4440	6426
MONOFILAMENTS		309.0310 & 0610	0	2	0	0	0	0	0						2	3
STRIPS, $\frac{1}{2}$ LB & UNDER		309.2000 ^a	0	0	0	0	0	2	4						6	5
SUBTOTAL ABOVE			861	588	502	1016	579	534	469						4549	6700
STAPLE		309.4320 & 4325	1510	409	1623	853	1219	240	1447						7301	8190
GROUPED FILAMENTS		309.3010 & 3110	176		168	97	191	86	150						868	1467
SUBTOTAL ABOVE			1686	409	1791	950	1410	326	1597						8169	9657
WASTE, ADVANCED & NOT ADVANCED		309.6615 & 7510	0	0	64	0	197	0	38						299	221
NONCELLULOSIC FIBERS																
YARN - SINGLES																
TEXTURED - NYLON		310.0109 & 0209	423	174	125	210	516	341	454						2243	2568
POLYESTER		310.0110 & 0210	231	43	7	3	33	1	55						373	229
OTHER		310.0114 & 0214	32	26	69	361	268	330	289						1375	255
OTHER - NYLON		310.0149 & 0249	111	211	278	99	191	309	453						1652	2556
POLYESTER		310.0150 & 0250	551	691	368	441	403	296	199						2949	2486
OTHER		310.0170 & 0270 ^b	164	81	140	162	147	309	122						1125	1056
MONOFILAMENTS		309.0200 & 0350 ^c	140	139	157	145	89	195	128						993	1751
STRIPS, OVER $\frac{1}{2}$ LB		309.2100 & 2500 ^a	31	13	36	21	15	21	50						167	104
SUBTOTAL ABOVE			1683	1378	1180	1442	1662	1802	1750						10897	11005
STAPLE - NYLON			392	209	400	316	84	276	1432						3109	15526
POLYESTER		309.4342	487	517	933	577	494	567	926						4501	2748
ACRYLIC		309.4345	526	474	962	607	369	324	575						3837	7077
OLEFIN		309.4346	1	30	1	33	30	27	7						129	860
OTHER		309.4355	899	292	581	653	1011	2145	725						6306	5680
GROUPED FILAMENTS																
NYLON		309.3030 & 3130	460	530	345	565	884	266	362						3412	1174
POLYESTER		309.3040 & 3140	0	0	17	1			0						18	194
ACRYLIC		309.3050 & 3150	297	376	553	246	468	538	340						2818	1784
OTHER		309.3065 & 3165	196	53	34	38	144	31	97						593	1333
SUBTOTAL ABOVE			3258	2481	3826	3036	3484	4174	4464						24723	36376
WASTE, NOT ADVANCED - NYLON		309.6625	1882	1647	1838	2315	2285	2581	1175						13723	13700
POLYESTER		309.6630	1398	775	1580	608	581	502	302						5746	9665
ACRYLIC		309.6645	0	184	9	59	294	195	86						827	1718
OTHER		309.6660	433	229	247	256	480	174	290						2109	1480
NOIS & GARNETTED FIBERS		309.6000 & 7000 ^a	0	20	0	0	0	0	1						21	29
OTHER WASTE, ADVANCED		309.7525 7555	50	17	26	9	16	1	49						168	251
SUBTOTAL ABOVE			3763	2872	3700	3247	3656	3453	1903						22594	26843
TOTAL MAN-MADE ABOVE			11251	7728	11063	9691	10988	10289	10221						71231	90802
OTHER MAN-MADE FIBER TOPS, YARN & THREAD																
YARN - PLED																
TEXTURED - CELLULOSIC		310.1106	0	0		0	1	0	1						2	24
NONCELLULOSIC		310.1015 ^d & 1110 ^e	407	110	333	266	421	352	271						2160	1969
OTHER - CELLULOSIC		310.1030 & 1135 ^f		6	67	0	16	28	19						136	16
NONCELLULOSIC		310.1050 & 1070 ^g	200	18	13	54	29	121	31						466	266
SPUN YARN - CELLULOSIC		310.4005 & 4030 ^h	28	0	18	20	32	7	43						148	265
OTHER		310.4015 & 4021 ⁱ	1570	1253	1374	1784	2288	1940	1674						11883	11768
OTHER YARNS - NES, INCL. CHENILLE		310.6029 8000	205	89	190	229	367	393	246						1719	2540
HANDWORK YARNS & SEWING THREAD		310.9000 9140	166	203	188	226	192	234	113						1322	1635
SILVER TOPS & ROVING		309.9000	434	309	201	115	79	133	338						1609	2233
TEXTILE GLASS FIBER		309.2800 & 2900 ^j	1737	1092	1011	736	1033	1358	1281						8248	6898
GRAND TOTAL ABOVE			15998	10808	14458	13121	15446	14855	14238						98624	118411

SOURCE: U.S. Census Bureau.

NES - Not elsewhere specified.

^a These items are not reported by the Census as cellulosic vs. noncellulosic. Any separation between cellulosic and noncellulosic is estimated, based mainly on average declared value.

^b Also includes 310.0510 & .0610.

^c Also includes 310.0530, .0550, .0630 & .0650.

^d Also includes 309.0340, .0365, .0500, .0630, .0640 & .0665.

^e There may be some acetate yarn in these data, but the Census figures

do not permit a segregation.

^f Also includes 310.1110 & .1114.

^g Also includes 310.2010 & 2110.

^h Also includes 310.1150, .1155, .1170, .2030, .2050, .2130 & .2150.

ⁱ Also includes 310.5005 & .5030.

^j Chiefly roving. Also includes 309.9800 & .9900.

FILAMENT YARN DOMESTIC SHIPMENTS^a

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
		1978	1979	1980	1981	1981				1982			
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(A) ACETATE	(N) NYLON+ARAMID	(P) POLYESTER	(O) OLEFIN								
HOSIERY ^b	N	99.0	106.3	106.3	107.0	27.2	27.2	27.7	24.9	22.4	22.2		
OTHER CIRCULAR KNIT ^c	N	65.5	58.9	56.6	48.2	12.3	13.6	11.4	10.9	8.4	5.4		
	P	635.5	615.4	495.7	345.6	95.4	97.3	83.9	69.0	59.4	57.6		
	A	1.9	4.5	3.2	4.8	0.9	2.1	1.3	0.5	0.4	0.7		
FLAT KNIT	A	138.3	146.9	144.9	104.7	27.6	37.2	23.5	16.4	20.2	20.5		
	N	196.1	202.6	176.3	163.2	43.3	44.5	37.6	37.8	32.8	32.6		
	P	81.7	89.0	83.8	98.4	25.7	25.1	25.1	22.5	21.1	21.8		
CARPET FACE	N	677.8	732.5	714.5	633.6	184.0	186.9	146.6	116.1	123.6	141.4		
	O	78.9	85.3	89.5	89.5	21.5	22.7	22.0	23.3	23.4	22.1		
CARPET BACKING ^d	O	213.7	220.7	197.8	195.3	52.7	49.9	48.0	44.7	45.7	45.6		
OTHER BROAD WOVEN ^e	A	125.9	129.2	110.5	104.7	22.8	27.7	29.6	24.6	22.3	23.3		
	N	95.0	102.7	94.3	89.2	22.0	21.9	21.6	23.7	21.5	20.8		
	P	411.5	387.2	405.5	440.2	100.8	138.4	115.6	85.4	78.4	88.5		
	O	158.7	171.4	186.3	200.7	50.3	50.3	51.5	48.6	42.8	44.6		
NARROW WOVEN ^f	A	7.0	5.9	8.7	8.5	1.5	2.2	2.2	2.6	0.9	0.7		
	N	40.6	37.2	31.4	34.0	9.1	7.1	9.2	8.6	8.2	7.8		
	P	29.1	30.5	28.1	28.1	6.4	7.5	7.3	6.9	5.4	8.3		
	O	11.1	11.8	12.3	12.6	3.2	3.2	3.1	3.1	2.8	3.0		
TIRES, INCL. CHAFER	N	267.6	285.3	209.2	204.7	51.5	52.7	52.6	47.9	37.6	38.5		
	P	253.4	227.4	161.0	174.8	43.3	44.1	46.6	40.8	43.7	44.1		
OTHER RUBBER INDUSTRY ^g	N	25.7	28.7	22.3	25.7	7.2	6.4	5.5	6.6	6.6	5.2		
	P	32.0	35.8	30.2	35.1	7.4	8.1	9.5	10.1	8.4	7.7		
ROPE, CORDAGE & FISHLINE	N	33.4	38.2	33.0	30.6	8.2	7.9	8.2	6.3	7.1	6.7		
	P	10.6	13.6	13.1	15.8	4.6	3.7	3.7	3.8	2.9	3.6		
	O	82.4	95.3	84.4	92.1	28.5	22.9	18.9	21.8	23.2	20.6		
ALL OTHER ^h	A	1.5	1.9	1.9	3.6	0.6	0.7	1.0	1.3	1.1	1.9		
	N	34.7	38.9	95.0	68.1	15.7	17.9	20.0	14.5	13.4	15.9		
	P	53.8	126.2	146.0	292.0	70.5	68.3	73.1	80.1	77.9	60.9		
	O	34.9	39.7	41.4	38.1	8.1	9.6	11.5	8.9	8.9	9.1		
TOTAL DOMESTIC ABOVE	A	274.6	288.4	269.2	226.3	53.4	69.9	57.6	45.4	44.9	47.1		
	N	1539.1	1631.3	1538.9	1404.3	380.5	386.1	340.4	297.3	281.6	296.5		
	P	1507.6	1525.1	1363.4	1430.0	354.1	392.5	364.8	318.6	297.2	292.5		
	O	579.7	624.2	611.7	628.3	164.3	158.6	155.0	150.4	146.8	145.0		
TOTAL DOMESTIC ABOVE		3901.0	4069.0	3783.2	3688.9	952.3	1007.1	917.8	811.7	770.5	781.1		
ALSO DIVIDED AS													
APPAREL		1671.2	1604.5	1530.4	1533.6	388.4	437.9	378.5	328.8	303.9	285.6		
HOME FURNISHINGS		1171.9	1274.6	1212.7	1128.7	308.6	313.3	273.3	233.5	237.7	257.4		
INDUSTRIAL		1057.9	1189.9	1040.1	1026.6	255.3	255.9	266.0	249.4	228.9	238.1		
SHIPMENTS OF FEED & PRODUCER-TEXTURED YARN (NONCARPET) ⁱ													
ACETATE		1.3	+	0	0	0	0	0	0	0	0		
NYLON		161.6	166.8	167.4	159.6	40.9	42.3	39.7	36.7	30.9	29.7		
POLYESTER		1018.7	1015.3	942.0	991.3	248.3	277.5	251.0	214.5	198.1	189.1		
OLEFIN		52.3	46.5	40.9	33.5	9.7	8.9	8.4	6.5	7.6	7.3		

a. Filament yarn plus monofilament shipments by primary trade or end use; olefin includes spunbonded polypropylene but does not include spunbonded polyethylene.

b. Small poundages of polyester are included in All Other.

c. Small poundages of olefin are included in All Other.

d. Small poundages of nylon and polyester are included in All Other.

e. Other Broad Woven except carpets, tire fabric, flat belting, etc. The olefin poundages include other home furnishings applications only.

i.e., industrial applications are in All Other.

f. Narrow Woven includes apparel ribbons and braids, auto seat belts and or furniture webbing.

g. Small poundages of olefin are included in All Other.

h. All Other includes sewing thread and other industrial applications. The olefin poundages include sliver knit backing. Also includes indirect exports starting 1st Quarter 1980.

i. These poundages are included in the Total Domestic area above.

STAPLE & TOW DOMESTIC SHIPMENTS

MILLION POUNDS

ITEM		ANNUAL DATA				QUARTERLY DATA							
		1978	1979	1980	1981	1981				1982			
						1ST Q	2ND Q	3RD Q	4TH Q	1ST Q	2ND Q	3RD Q	4TH Q
		(R) RAYON	(N) NYLON+ARAMID	(A) ACRYLIC+MODACRYLIC	(P) POLYESTER	(O) OLEFIN							
HOSIERY, SWEATERS & CRAFT YARNS ^a	A	241.8	238.8	275.7	255.6	63.2	70.6	67.2	54.6	54.7	62.6		
	NPR	15.0	21.3	11.5	8.9	2.2	1.9	2.3	2.5	2.0	2.2		
PILE FABRICS ^b	A	82.4	65.1	60.4	44.7	14.8	14.3	8.8	6.8	10.3	11.6		
	P	15.1	17.8	18.3	14.9	3.6	4.5	3.5	3.3	3.9	3.8		
OTHER CIRCULAR+FLAT KNIT ^c	R	10.8	11.7	9.8	10.9	2.7	3.3	2.6	2.3	2.0	1.8		
	A	93.1	98.8	125.0	91.6	24.0	26.2	23.3	18.1	24.4	33.0		
	P	223.7	278.1	296.3	300.7	77.7	78.7	78.2	66.1	70.9	72.2		
BLANKETS ^b	A	55.2	45.5	42.2	28.1	7.6	6.2	6.4	7.9	4.7	5.5		
	P	14.9	13.2	17.3	14.8	3.2	4.1	3.1	4.4	2.1	3.0		
OTHER BROAD WOVEN	R	245.9	233.2	201.6	224.7	56.5	58.2	57.6	52.4	38.2	34.4		
	N	52.6	59.2	53.0	52.4	12.4	14.2	13.2	12.6	11.6	14.9		
	A	28.6	42.1	42.3	33.0	10.0	8.5	7.1	7.4	5.7	7.9		
	P	1114.7	1171.0	1194.6	1107.0	269.9	290.8	284.2	262.1	232.2	222.3		
	O	10.6	17.0	17.3	17.1	5.0	5.7	2.9	3.5	3.7	6.0		
CARPET FACE YARNS	R	*	*	*	0.3	*	*	0.2	0.1	*	0.2		
	N	798.5	828.0	631.5	617.4	185.7	192.7	136.3	102.7	125.1	150.1		
	A	62.8	48.1			Included in All Other							
	P	200.8	192.4	119.9	124.0	27.0	37.6	29.2	30.2	24.6	32.0		
	O	46.0	64.7	61.6	67.5	16.1	17.7	17.3	16.4	17.0	21.5		
FIBERFILL ^d	P	198.2	239.6	205.1	226.7	57.1	54.0	59.0	56.6	49.0	53.4		
	NP	8.2	10.7	10.8	13.0	3.8	4.2	2.7	2.3	2.1	2.8		
	R	4.7	5.1	5.1	5.6	0.8	1.3	2.3	1.2	0.7	0.9		
FLOCK	R	166.2	160.3	147.3	124.6	32.6	34.9	29.3	27.8	32.0	25.3		
	N	4.1	3.8	3.2	3.5	1.1	1.0	0.8	0.6	1.1	0.8		
	P	98.5	153.6	166.6	149.3	36.1	37.8	35.8	39.6	35.0	38.8		
NONWOVENS ^{e,f}	VINYLON+O	28.6	36.7	34.6	42.7	9.6	11.3	11.1	10.7	7.4	10.2		
	R	29.5	30.9	26.2	29.1	7.1	6.5	8.4	7.1	4.5	6.8		
	N	11.1	10.8	12.2	10.3	2.3	3.8	2.2	2.0	1.8	2.1		
ALL OTHER	A	7.7	8.2	39.7	41.1	10.6	11.2	10.7	8.6	8.3	7.4		
	P	80.7	49.3	42.6	60.6	16.4	16.8	12.7	14.7	18.0	18.1		
	VINYLON+O	4.8	0.9	1.5	4.7	1.2	0.8	0.9	1.8	1.2	2.2		
TOTAL DOMESTIC ABOVE	R	459.2	442.4	390.7	396.9	100.2	104.5	100.7	91.5	77.6	69.8		
	N	876.4	913.2	711.2	696.4	204.8	215.9	155.4	120.3	141.9	170.8		
	A	571.6	546.6	585.3	494.1	130.2	137.0	123.5	103.4	108.1	127.9		
	P	1967.5	2134.4	2071.0	2005.4	493.2	525.9	507.5	478.8	437.3	445.3		
	VINYLON+O	90.0	119.3	115.0	132.0	31.9	35.5	32.2	32.4	29.3	49.9		
TOTAL DOMESTIC ABOVE		3964.7	4155.9	3873.2	3724.8	960.3	1018.8	919.3	826.4	794.2	853.7		
ALSO DIVIDED AS													
APPAREL		1493.4	1548.6	1632.9	1487.5	366.0	397.9	386.8	336.8	328.5	344.0		
HOME FURNISHINGS		1714.8	1759.1	1478.0	1442.9	394.7	415.9	334.0	298.3	287.0	322.9		
INDUSTRIAL		756.5	848.2	762.3	794.4	199.6	205.0	198.5	191.3	178.7	186.8		

a. Olefin poundages are included in All Other.

b. Rayon and nylon poundages are included in All Other.

c. Nylon poundages are included in All Other.

d. Rayon and acrylic poundages are included in All Other.

e. Wet & dry laid and needled batts only.

f. Acrylic poundages are included in All Other.

SELECTED U.S. MONTHLY TEXTILE FIBER DATA

MILLION POUNDS

ITEM	1982												YEAR TO DATE ^a	
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	1982	1981
MAN-MADE FIBER DATA^c														
YARN+MONOFILAMENTS^d														
TOTAL SHIPMENTS^b														
ACETATE	19.1	16.9	17.7	19.4	16.5	17.4	12.2	17.3					136.5	187.2
NYLON ^e INDUSTRIAL ^f	26.2	29.2	31.5	30.8	26.7	28.3	23.5	21.9					218.1	274.9
LOW DENIER INDUSTRIAL ^h	2.6	2.3	2.6	2.5	2.2	2.7	1.9	2.5					19.3	23.6
CARPET	40.3	43.3	46.0	46.1	51.2	48.3	42.6	60.2					378.0	505.9
TEXTILE	27.9	27.0	29.5	28.4	26.6	26.5	21.4	29.3					216.6	285.9
POLYESTER INDUSTRIAL ^f	22.6	24.4	27.8	26.3	22.9	27.4	21.8	23.8					197.0	206.5
LOW DENIER INDUSTRIAL ^h	1.9	1.8	1.9	1.9	1.9	2.1	1.5	2.1					15.1	19.2
TEXTILE	75.4	87.8	88.5	88.2	79.3	78.3	61.2	73.6					632.3	850.1
OLEFIN ^h	50.1	50.4	51.0	49.3	48.9	50.1	49.5	50.2					399.5	441.2
TOTAL NONCELLULOSIC ABOVEⁱ	247.0	266.2	278.8	273.5	259.7	263.7	223.4	263.6					2075.9	2607.3
STAPLE+TOW+FIBERFILL^j														
RAYON	30.3	28.9	31.8	29.0	27.7	29.9	25.2	28.9					231.7	310.1
NYLON ^e	48.0	48.3	49.7	55.9	61.0	58.1	51.4	68.3					440.7	551.1
ACRYLIC+MODACRYLIC	45.8	47.7	61.0	52.7	57.5	59.2	47.6	58.5					430.0	484.3
POLYESTER	173.3	176.4	174.0	161.7	156.6	155.3	122.3	163.0					1289.6	1742.0
OLEFIN+VINYLON	8.3	10.2	11.4	10.8	14.9	14.8	11.6	12.5					94.5	90.1
TOTAL NONCELLULOSIC ABOVE	275.4	282.6	296.1	281.1	290.0	287.4	239.9	302.3					2254.8	2867.5
END-OF-MONTH STOCK														
ACETATE	12.4	11.7	13.5	11.0	11.9	13.2	12.3	11.7					11.7	13.7
NYLON ^e INDUSTRIAL ^f	41.7	37.6	33.1	30.4	31.7	33.3	36.5	37.5					37.5	38.3
LOW DENIER INDUSTRIAL ^h	4.5	4.5	4.1	4.6	4.6	4.5	4.6	4.2					4.2	3.8
CARPET	62.3	58.0	55.5	53.9	49.5	51.4	59.6	48.2					48.2	64.9
TEXTILE	50.9	52.9	51.1	48.6	45.9	43.3	43.4	40.5					40.5	44.5
POLYESTER INDUSTRIAL ^f	23.7	25.1	25.2	24.6	27.1	27.8	28.1	28.6					28.6	22.7
LOW DENIER INDUSTRIAL ^h	4.0	3.4	3.8	3.7	3.6	2.7	2.5	2.6					2.6	3.3
TEXTILE	93.4	89.9	93.4	91.9	87.1	81.7	83.8	79.5					79.5	84.1
OLEFIN ^h	64.3	64.0	64.5	63.6	63.3	63.1	61.5	60.2					60.2	62.2
TOTAL NONCELLULOSIC ABOVEⁱ	344.8	335.4	330.7	321.3	312.8	307.8	320.0	301.3					301.3	323.8
STAPLE+TOW+FIBERFILL														
RAYON	32.6	35.6	36.3	35.1	36.2	36.4	37.8	38.9					38.9	25.7
NYLON ^e	63.9	58.7	59.3	53.4	48.9	53.6	64.1	55.1					55.1	71.8
ACRYLIC+MODACRYLIC	68.6	65.2	60.2	67.7	63.7	61.9	66.0	61.3					61.3	64.2
POLYESTER	180.4	191.9	189.2	186.6	185.8	175.2	181.7	162.4					162.4	177.4
OLEFIN+VINYLON	30.0	31.3	31.6	29.3	24.7	21.9	21.6	21.7					21.7	17.9
TOTAL NONCELLULOSIC ABOVE	342.9	347.1	340.3	337.0	323.1	312.6	333.4	300.5					300.5	331.3

WOOL & COTTON CONSUMPTION

APPAREL CLASS WOOL	11.9	10.9	13.3	10.8	10.3	10.7							67.9	75.4
CARPET CLASS WOOL	0.7	0.9	1.0	0.8	1.0	0.6							5.0	4.9
TOTAL RAW WOOL	12.6	11.8	14.3	11.6	11.3	11.3							72.9	80.3
RAW COTTON	207.2	198.6	228.7	217.3	217.2	200.1	170.1						1439.2	1606.3

a. Year to date totals except for stock, which is the latest month's data.

b. The monthly production of each fiber may be calculated as total shipments plus a stock increase, or less a stock decrease, over the month.

c. Producers' total domestic plus export shipments.

d. Rayon yarn data are available annually only; see page 21 of the February issue.

e. Data for nylon include aramid.

f. Industrial is defined as 500 denier and coarser with an Instron tenacity of 7 grams or more per denier.

g. Low denier industrial is defined as finer than 500 denier with an Instron tenacity over 5.5 grams per denier.

h. Olefin yarn+monofilaments also includes spunbonded polypropylene and film fiber produced for textile end uses.

i. Saran and spandex data are not included in these totals. See page 21 of the February issue for annual data on these yarns.

j. Acetate staple+tow data are available annually only; see page 21 of the February issue.